OUICK SHIP - 10 Days BeveLED BASIC



PROJECT INFORMATION

PROJECT	
DATE	
TYPE	

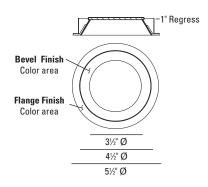
DOWNLIGHT	1020-Q
·	1" Regress

BeveLED Basic Recessed Downlight - Our narrow footprint housing provides an economical architectural solution while delivering high performance with LEDs. Now, with USAI Lighting's 10 Days Shipping Quick Ship program, a specific selection of these models can be shipped for your project in less time than you ever thought possible.

DELIVERED PERFORMANCE

BeveLED Basic DOWNLIGHT	3000K	3500K
Color Rendering Index	80+ CRI	80+ CRI
Lumens per Watt	59	68
Source Lumens	1500	1625
Delivered Lumens	1250	1350
Color Consistency	2-Step MacAda	am Ellipse

1" Regress



HOW TO SPECIFY

TRIM ORDI TRIM		NFORMA Evel Styl		BEAM SPREAD	ı	FINISH		QUICK Ship
1020	-	B1	_		-	10	_	Q
Round Downlight 1" Regress		egress Bev nted Die Ca		30 30° beam 50 50° beam 80 80° beam		10 White	(Q Quick Ship



HOUSING ORDERING INFORMATION

HOUSING	WATTAGE	ENGINE	COLOR	OPTIC	ŀ	HOUSING TYPE		VOLTAGE		DIMMING		QUICK		MOUNTING
LRTU4	- 7020	- M2		UR	- [NCSM	-	UNV	-	DIML2	-	O.	-	CB27
LRTU4	7020 20W LED See performance chart for precise lumen information.	M2	30KS 3000K, 80+ CRI 35KS 3500K, 80+ CRI 2 Step MacAdam ellipse is standard for all	UR Universal Reflector (accepts any Quick Ship optic)	NCSM	New Construction, Narrow Width	UNV	120V/277V Universal Voltage	DIN	/IL2 0-10V dim, 10	0%	Q Quick Ship	CB27	7 27" C-Channel Bars

QUICK SHIP ORDERING OPTIONS - AVAILABLE FOR SHIPPING WITHIN 10 DAYS OF CLEAN ORDER

Α	1020-B1-30-10-Q - LRTU4-7020-M2-30KS-UR-NCSM-UNV-DIML2-Q - CB27 (30° beam, 30KS)
В	1020-B1-50-10-Q - LRTU4-7020-M2-30KS-UR-NCSM-UNV-DIML2-Q - CB27 (50° beam, 30KS)
С	1020-B1-80-10-Q - LRTU4-7020-M2-30KS-UR-NCSM-UNV-DIML2-Q - CB27 (80° beam, 30KS)
D	1020-B1-30-10-Q - LRTU4-7020-M2-35KS-UR-NCSM-UNV-DIML2-Q - CB27 (30° beam, 35KS)
F	1020-B1-50-10-Q - LRTU4-7020-M2-35KS-UR-NCSM-UNV-DIML2-Q - CB27 (50° beam, 35KS)
F	1020-B1-80-10-Q - LRTU4-7020-M2-35KS-UR-NCSM-UNV-DIML2-Q - CB27 (80° beam, 35KS)

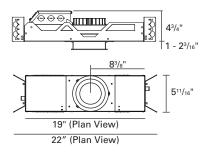


OUICK SHIP - 10 Days BeveLED BASIC



HOUSING INFORMATION

New Construction, Narrow Width - NCSM





SPECIFICATIONS

TRIM: 4-1/2" round aperture with a 1" regressed bevel and 1/2" flange, retained by two mounting clips. Die cast aluminum bevel is self-flanged and is available in white.

TRIM LENS: Trim is shipped with integral solite lens standard.

REFLECTOR: Interchangeable precision injection molded specular polycarbonate reflector optimized for 30°, 50° or 80° beam distribution.

FIELD REPLACEABLE LIGHT ENGINE: Available in 1 lumen package 20W. Engine is field replaceable through the aperture without tools.

COLOR: Quick Ship BeveLED Basic is available in 2 color temperatures (3000K, 3500K). All color options are tightly binned for fixture-to-fixture color consistency within a 2-Step MacAdam Ellipse. 80+ color rendering index provided standard.

RATED LIFE: Based on IESNA LM80-2008 50,000 hours at 70% lumen maintenance (L70).

THERMAL MANAGEMENT: Proprietary high performance aluminum die cast heatsink for maximum LED life. Ambient temperatures at fixture location should not exceed 40°C during normal operation.

FIELD REPLACEABLE DRIVER: 0-10V, 100%-10% solid state electronic constant current driver with a high power factor provided standard and sources 2mA. Universal voltage dimming driver is for use with 120V or 277V. If on/off non-dimming operation is desired, simply cap off the low voltage dimming purple wire and gray wire separately during installation as per instructions. Driver complies with IEEE C62.41 surge protection.

MOUNTING: Butterfly brackets and adjustable C-channel bars that extend to 27".

HOUSING: Fabricated of 20 ga. galvanized steel with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring.

MAXIMUM CEILING THICKNESS: As per drawings above.

CEILING CUT OUT: 5-1/16" Ø

LISTINGS: Dry/Damp. NRTL/CSA-US tested to UL standards. IBEW union made. Energy Star Qualified under Luminaires Specification V2.0. 800 is not Energy Star qualified. Please see Energy Star website for exact model #s included in the listing.

WARRANTY: 5 years

NOTES:





- Not for use in corrosive environment.
- Use of pressure washer voids warranty.

PHOTOMETRICS: Consult factory or website for IES files. Tested in accordance with IESNA LM79-2008.

OUICK SHIP - 10 Days Beveled BASIC



DELIVERED PERFORMANCE

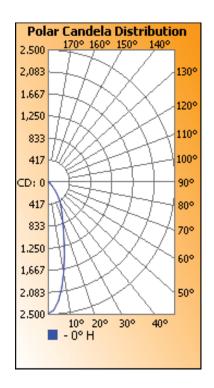
1020 20W 30KS 30°

Coeffici	ents	of U	tiliza	tion	- Zoi	nal C	avit	у Ме	thod									
											Effe	ctive	Floor	Cavi	ty Ref	lecta	nce:	20%
RCC %:		8	0		70				<i>50</i>				<i>30</i>		<i>10</i>			0
RW %:	<u>70</u>	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.13	1.10	1.08	1.05	1.11	1.08	1.06	.93	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.95	.93
2	1.07	1.02	.98	.95	1.05	1.01	.97	.87	.97	.94	.91	.94	.92	.89	.92	.89	.88	.86
3	1.02	.95	.90	.86	1.00	.94	.89	.81	.91	.87	.84	.89	.85	.83	.86	.84	.81	.80
4	.97	.89	.83	.79	.95	.88	.82	.75	.86	.81	.77	.84	.80	.77	.82	.78	.76	.74
5	.92	.83	.77	.73	.90	.82	.77	.70	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69
6	.87	.78	.72	.68	.86	.78	.72	.66	.76	.71	.67	.75	.70	.67	.73	.69	.66	.65
7	.83	.74	.68	.64	.82	.73	.68	.62	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8	.79	.70	.64	.60	.78	.69	.64	.59	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9	.76	.66	.61	.57	.75	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.55
10	.73	.63	.58	.54	.72	.63	.57	.53	.62	.57	.53	.61	.57	.53	.60	.56	.53	.52

Zonal Lumen Summary

Zone Lumens % Luminaire 0-30 826.0 68% 0-40 1,036.5 85.4% 0-60 1,175.7 96.9% 60-90 38.1 3.1% 70-100 12.4 1% 90-120 0%

	Illuminance at	a Distance
	Center Beam fc	Beam Width
2.0R	622.8 fc	1.0 ft
4.0ft	155.7 fc	2.1 ft
6.0ft	69.2 fc	3.1 ft
8.0ft	38.9 fc	4.2 ft
10.0ft	24.9 fc	5.2 ft
12.0ft	17.3 fc	6.3 ft
14.0ft	12.7 fc	7.3 ft
16.0ft	9.7 fc	8.4 ft
16.010	Beam Spread: 29.3°	

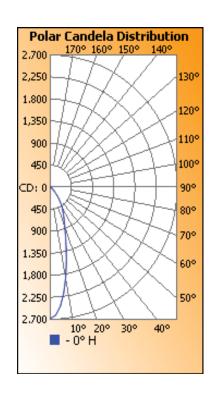


1020 20W 35KS 30°

Coeffici	Coefficients Of Utilization - Zonal Cavity Method																	
						Effective Floor Cavity Reflectance: 20												
RCC %:		8	0			7	0			<i>50</i>			<i>30</i>			<i>10</i>		0
RW %:	<u>70</u>	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.13	1.10	1.08	1.05	1.11	1.08	1.06	.93	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.95	.93
2	1.07	1.02	.98	.95	1.05	1.01	.97	.87	.97	.94	.91	.94	.92	.89	.92	.89	.88	.86
3	1.02	.95	.90	.86	1.00	.94	.89	.81	.91	.87	.84	.89	.85	.83	.86	.84	.81	.80
4	.97	.89	.83	.79	.95	.88	.82	.75	.86	.81	.77	.84	.80	.77	.82	.78	.76	.74
5	.92	.83	.77	.73	.90	.82	.77	.70	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69
6	.87	.78	.72	.68	.86	.78	.72	.66	.76	.71	.67	.75	.70	.67	.73	.69	.66	.65
7	.83	.74	.68	.64	.82	.73	.68	.62	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8	.79	.70	.64	.60	.78	.69	.64	.59	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9	.76	.66	.61	.57	.75	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.55
10	.73	.63	.58	.54	.72	.63	.57	.53	.62	.57	.53	.61	.57	.53	.60	.56	.53	.52

Zonal	Lumen 9	Summary
Zone	Lumens	% Luminaire
0-30	892.0	68%
0-40	1,119.4	85.4%
0-60	1,269.8	96.9%
60-90	41.2	3.1%
70-100	13.4	1%
90-120	0	0%

	Illuminance at a	a Distance
	Center Beam fc	Beam Width
2.0A	672.6 fc	1.0 ft
4.0ft	168.1 fc	2.1 ft
6.0ft	74.7 fc	3.1 ft
8.0ft	42.0 fc	4.2 ft
10.0ft	26.9 fc	5.2 ft
12.0ft	18.7 fc	6.3 ft
14.0ft	13.7 fc	7.3 ft
16.0ft	10.5 fc	8.4 ft
	Beam Spread: 29.3°	



OUICK SHIP - 10 Days Beveled BASIC



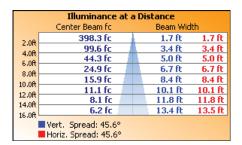
DELIVERED PERFORMANCE

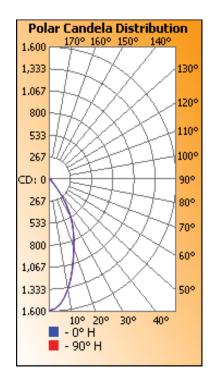
1020 20W 30KS 50°

Coeffici	Coefficients Of Utilization - Zonal Cavity Method																	
											Effe	ctive	Floor	Cavi	ty Ref	lecta	nce:	20%
RCC %:		8	0			7	0			<i>50</i>			<i>30</i>			<i>10</i>		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.13	1.10	1.07	1.05	1.11	1.08	1.05	.93	1.04	1.02	1.00	1.00	.99	.97	.97	.95	.94	.93
2	1.07	1.02	.97	.94	1.05	1.00	.96	.86	.97	.93	.91	.94	.91	.89	.91	.89	.87	.85
3	1.01	.94	.89	.85	.99	.93	.88	.80	.90	.86	.83	.88	.84	.81	.85	.83	.80	.78
4	.96	.88	.82	.77	.94	.86	.81	.74	.84	.80	.76	.82	.78	.75	.80	.77	.74	.73
5	.91	.82	.76	.71	.89	.81	.75	.68	.79	.74	.70	.77	.73	.69	.76	.72	.69	.67
6	.86	.76	.70	.66	.84	.76	.70	.64	.74	.69	.65	.73	.68	.64	.71	.67	.64	.63
7	.81	.72	.65	.61	.80	.71	.65	.60	.70	.64	.60	.68	.64	.60	.67	.63	.60	.58
8	.77	.67	.61	.57	.76	.67	.61	.56	.66	.60	.56	.65	.60	.56	.64	.59	.56	.55
9	.74	.64	.57	.53	.72	.63	.57	.52	.62	.57	.53	.61	.56	.53	.60	.56	.53	.51
10	.70	.60	.54	.50	.69	.60	.54	.49	.59	.53	.50	.58	.53	.50	.57	.53	.49	.48

Zonal Lumen Summary

Zone Lumens % Luminaire 0-30 813.3 64.6% 0-40 1,085.6 86.2% 0-60 1,226.2 97.3% 60-90 33.6 2.7% 70-100 12.1 1% 90-120 0 0%



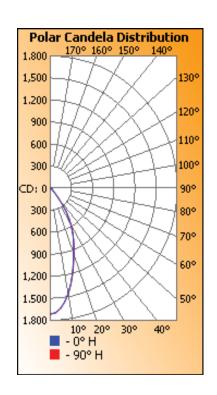


1020 20W 35KS 50°

Coefficients Of Utilization - Zonal Cavity Method																		
											Effe	ctive	Floor	Cavi	ty Ref	flecta	nce:	20%
RCC %:		8	0			7	0			<i>50</i>			<i>30</i>			<i>10</i>		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.13	1.10	1.07	1.05	1.11	1.08	1.05	.93	1.04	1.02	1.00	1.00	.99	.97	.97	.95	.94	.93
2	1.07	1.02	.97	.94	1.05	1.00	.96	.86	.97	.93	.91	.94	.91	.89	.91	.89	.87	.85
3	1.01	.94	.89	.85	.99	.93	.88	.80	.90	.86	.83	.88	.84	.81	.85	.83	.80	.78
4	.96	.88	.82	.77	.94	.86	.81	.74	.84	.80	.76	.82	.78	.75	.80	.77	.74	.73
5	.91	.82	.76	.71	.89	.81	.75	.68	.79	.74	.70	.77	.73	.69	.76	.72	.69	.67
6	.86	.76	.70	.66	.84	.76	.70	.64	.74	.69	.65	.73	.68	.64	.71	.67	.64	.63
7	.81	.72	.65	.61	.80	.71	.65	.60	.70	.64	.60	.68	.64	.60	.67	.63	.60	.58
8	.77	.67	.61	.57	.76	.67	.61	.56	.66	.60	.56	.65	.60	.56	.64	.59	.56	.55
9	.74	.64	.57	.53	.72	.63	.57	.52	.62	.57	.53	.61	.56	.53	.60	.56	.53	.51
10	.70	.60	.54	.50	.69	.60	.54	.49	.59	.53	.50	.58	.53	.50	.57	.53	.49	.48

Zone	Lumens	% Luminaire
0-30	878.3	64.6%
0-40	1,172.5	86.2%
0-60	1,324.3	97.3%
60-90	36.2	2.7%
70-100	13.1	1%
90-120	0	0%

Illuminance at a Distance											
	Center Beam fc		Beam Wid	lth							
2.0 R	430.2 fc		1.7 ft	1.7 ft							
4.0ft	107.5 fc		3.4 ft	3.4 ft							
6.0ft	47.8 fc		5.0 ft	5.0 ft							
8.0R	26.9 fc		6.7 ft	6.7 ft							
10.0ft	17.2 fc		8.4 ft	8.4 ft							
12.0ft	11.9 fc		10.1 ft	10.1 ft							
14.0ft	8.8 fc		11.8 ft	11.8 ft							
	6.7 fc		13.4 ft	13.5 ft							
	16.0ft										



QUICK SHIP - 10 Days BeveLED BASIC



DELIVERED PERFORMANCE

1020 20W 30KS 80°

Coefficients Of Utilization - Zonal Cavity Method																		
											Effe	ctive	Floor	Cavi	ty Ref	flecta	nce:	20%
RCC %:		8	0			7	0			<i>50</i>			<i>30</i>			<i>10</i>		0
RW %:	<u>70</u>	50	30	0	<u>70</u>	<u>50</u>	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.11	1.07	1.04	1.01	1.09	1.05	1.02	.89	1.01	.99	.96	.97	.95	.93	.94	.92	.91	.89
2	1.03	.96	.91	.86	1.01	.94	.89	.79	.91	.87	.83	.88	.84	.81	.85	.82	.80	.78
3	.95	.86	.80	.74	.93	.85	.79	.69	.82	.77	.72	.80	.75	.71	.77	.73	.70	.68
4	.88	.78	.70	.65	.86	.77	.70	.61	.74	.68	.63	.72	.67	.63	.70	.66	.62	.60
5	.82	.71	.63	.57	.80	.70	.62	.55	.68	.61	.56	.66	.60	.56	.64	.59	.55	.53
6	.76	.64	.56	.51	.74	.63	.56	.49	.62	.55	.50	.60	.54	.50	.59	.53	.49	.47
7	.71	.59	.51	.45	.69	.58	.50	.44	.56	.50	.45	.55	.49	.45	.54	.48	.44	.42
8	.66	.54	.46	.41	.65	.53	.46	.40	.52	.45	.40	.51	.45	.40	.50	.44	.40	.38
9	.62	.50	.42	.37	.61	.49	.42	.36	.48	.41	.37	.47	.41	.37	.46	.40	.36	.35
10	.58	.46	.39	.34	.57	.45	.38	.33	.45	.38	.34	.44	.38	.33	.43	.37	.33	.32

Zonal Lumen Summary Zone Lumens % Luminaire 0-30 384.9 37.1% 0-40 626.5 60.4% 0-60 959.2 92.5% 60-90 77.2 7.5% 22.8

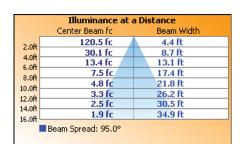
0

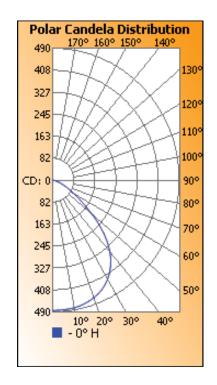
2.2%

0%

70-100

90-120





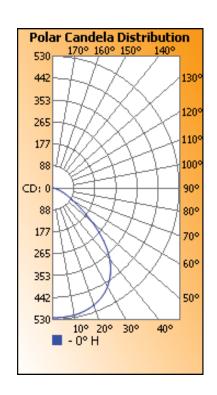
1020 20W 35KS 80°

Coeffici	Coefficients Of Utilization - Zonal Cavity Method																	
											Effe	ctive	Floor	Cavi	ty Re	flecta	nce:	20%
RCC %:		8	0			7	0			<i>50</i>			<i>30</i>			<i>10</i>		0
RW %:	<u>70</u>	50	30	0	<u>70</u>	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.11	1.07	1.04	1.01	1.09	1.05	1.02	.89	1.01	.99	.96	.97	.95	.93	.94	.92	.91	.89
2	1.03	.96	.91	.86	1.01	.94	.89	.79	.91	.87	.83	.88	.84	.81	.85	.82	.80	.78
3	.95	.86	.80	.74	.93	.85	.79	.69	.82	.77	.72	.80	.75	.71	.77	.73	.70	.68
4	.88	.78	.70	.65	.86	.77	.70	.61	.74	.68	.63	.72	.67	.63	.70	.66	.62	.60
5	.82	.71	.63	.57	.80	.70	.62	.55	.68	.61	.56	.66	.60	.56	.64	.59	.55	.53
6	.76	.64	.56	.51	.74	.63	.56	.49	.62	.55	.50	.60	.54	.50	.59	.53	.49	.47
7	.71	.59	.51	.45	.69	.58	.50	.44	.56	.50	.45	.55	.49	.45	.54	.48	.44	.42
8	.66	.54	.46	.41	.65	.53	.46	.40	.52	.45	.40	.51	.45	.40	.50	.44	.40	.38
9				.37					.48							.40		.35
10	.58	.46	.39	.34	.57	.45	.38	.33	.45	.38	.34	.44	.38	.33	.43	.37	.33	.32

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	415.7	37.1%
0-40	676.6	60.4%
0-60	1,035.9	92.5%
60-90	83.4	7.5%
70-100	24.6	2.2%
90-120	0	0%

	Illuminance at a Distance									
	Center Beam fc	Beam Width								
2.0ft	130.1 fc	4.4 ft								
4.0ft	32.5 fc	8.7 ft								
6.0ft	14.5 fc	13.1 ft								
8.0ft	8.1 fc	17.4 ft								
10.0ft	5.2 fc	21.8 ft								
12.0ft	3.6 fc	26.2 ft								
14.0ft	2.7 fc	30.5 ft								
16.0ft	2.0 fc	34.9 ft								
	Beam Spread: 95.0°									





DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D2 / DIML2

DIMMING DRIVER WIRING SCHEMES:

NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

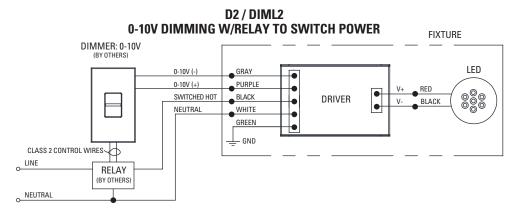
IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

D2 / DIML2 LED: 0-10V Dimming Driver Wiring (Dims down to 10%)

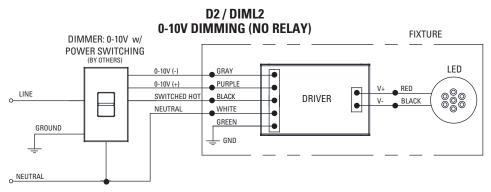
	D2 / DIML2 Dimmer Compatibility Chart									
	B 1 1	,	Dimmed Light	Oty Fixtures Per Dimmer*						
Manufacturer	Product	Part Number	Output Range	Per Dimmer*						
120V / 277V				Use source current per						
Crestron	iLux dimmer expansion module	CLS-EXP-DIMFLV	100% - 10%	fixture specification						
Crestron	DIN Rail dimmer	DIN-4DIMFLV4	100% - 10%	sheet to determine						
Crestron	DIN Rail analog output module	DIN-A08	100% - 10%	number of fixtures per						
Crestron	8 Channel dimmer module	GLX-DIMFLV8	100% - 10%	dimmer. Max number						
Crestron	8 Channel dimmer module	GLXP-DIMFLV8	100% - 10%	of fixtures is limited by						
Leviton	IllumaTech dimmer	IP710-DLX	100% - 10%	dimmer load rating.						
Lightolier (Philips)	Vega	V2000FAMU	100% - 10%	diffinition found ruting.						
Lutron	Diva	DVTV-XX	100% - 10%							

^{*} NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details.



NOTE:

If switched, non-dimming operation is desired, cap off purple and gray wires individually at installation. Do NOT cap purple and gray wires together.



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