

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P189528

Luminaire Tested: **BRG-WG-3L35-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34863)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WG-3L35-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 3 (628 mA)
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

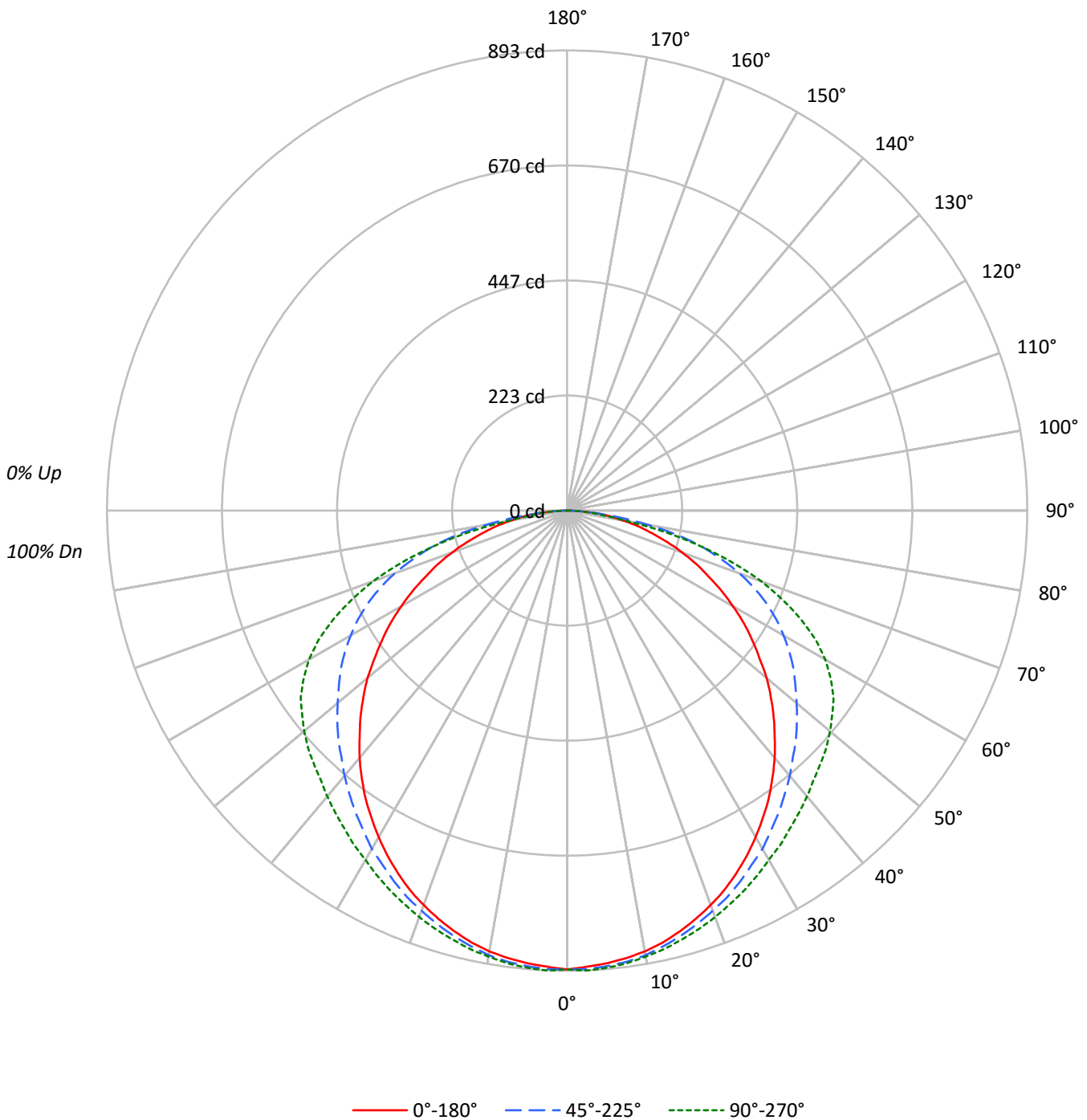
Lumens per Lamp: N/A
Luminaire Lumens: 2838.6 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
4	81	68	59	52	78	67	58	51	64	56	50	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	59	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2852	2852	2852
5°	2834	2853	2863
10°	2825	2848	2858
15°	2803	2831	2856
20°	2777	2816	2861
25°	2745	2807	2873
30°	2705	2803	2894
35°	2667	2798	2946
40°	2620	2809	3028
45°	2567	2845	3149
50°	2520	2897	3318
55°	2449	2994	3524
60°	2380	3108	3706
65°	2297	3236	3799
70°	2225	3330	3753
75°	2110	3354	3336
80°	2043	2956	2176
85°	1874	2087	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	3.0
10°-20°	241.0	8.5
20°-30°	366.4	12.9
30°-40°	448.8	15.8
40°-50°	485.9	17.1
50°-60°	478.1	16.8
60°-70°	410.2	14.5
70°-80°	258.7	9.1
80°-90°	65.2	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	691.7	24.4
0°-40°	1140.4	40.2
0°-60°	2104.5	74.1
0°-90°	2838.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2838.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	882	885	888	889	890	84
15°	845	848	854	860	861	238
25°	777	781	794	807	813	358
35°	682	691	716	742	754	426
45°	567	584	628	673	695	437
55°	439	471	536	599	631	392
65°	303	356	427	480	501	301
75°	170	230	271	272	270	182
85°	51	70	57	45	44	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	890.5	890.5	890.5	890.5	890.5
2.5°	886.1	887.6	890.5	893.4	893.4
5°	881.7	884.6	887.6	889.0	890.5
7.5°	875.9	878.8	883.2	884.6	886.1
10°	868.6	870.1	875.9	878.8	878.8
12.5°	858.4	859.9	865.7	870.1	871.5
15°	845.3	848.2	854.0	859.9	861.3
17.5°	830.7	833.6	840.9	848.2	851.1
20°	814.7	817.6	826.3	835.1	839.5
22.5°	797.2	801.6	811.8	822.0	826.3
25°	776.8	781.2	794.3	807.4	813.2
27.5°	754.9	762.2	775.3	791.4	798.7
30°	731.6	738.9	757.9	775.3	782.6
32.5°	706.8	715.6	736.0	757.9	769.5
35°	682.1	690.8	715.6	741.8	753.5
37.5°	654.4	666.0	693.7	724.3	738.9
40°	626.7	639.8	671.9	706.8	724.3
42.5°	596.1	610.7	648.5	689.4	708.3
45°	566.9	584.4	628.1	673.3	695.2
47.5°	536.3	556.7	604.8	655.8	682.1
50°	505.7	527.6	581.5	638.3	666.0
52.5°	470.7	499.9	558.2	619.4	648.5
55°	438.7	470.7	536.3	599.0	631.1
57.5°	406.6	443.1	511.5	575.7	606.3
60°	371.6	413.9	485.3	548.0	578.6
62.5°	338.1	386.2	457.6	517.4	543.6
65°	303.1	355.6	427.0	479.5	501.3
67.5°	271.1	326.5	393.5	437.2	453.3
70°	237.6	297.3	355.6	387.7	400.8
72.5°	204.0	263.8	313.3	332.3	338.1
75°	170.5	230.3	271.1	272.5	269.6
77.5°	141.4	193.8	218.6	205.5	198.2
80°	110.8	155.9	160.3	134.1	118.0
82.5°	81.6	110.8	100.6	78.7	68.5
85°	51.0	70.0	56.8	45.2	43.7
87.5°	23.3	26.2	21.9	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)