

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: P189534

Luminaire Tested: **BRG-WG-3L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189534
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-3L40-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) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

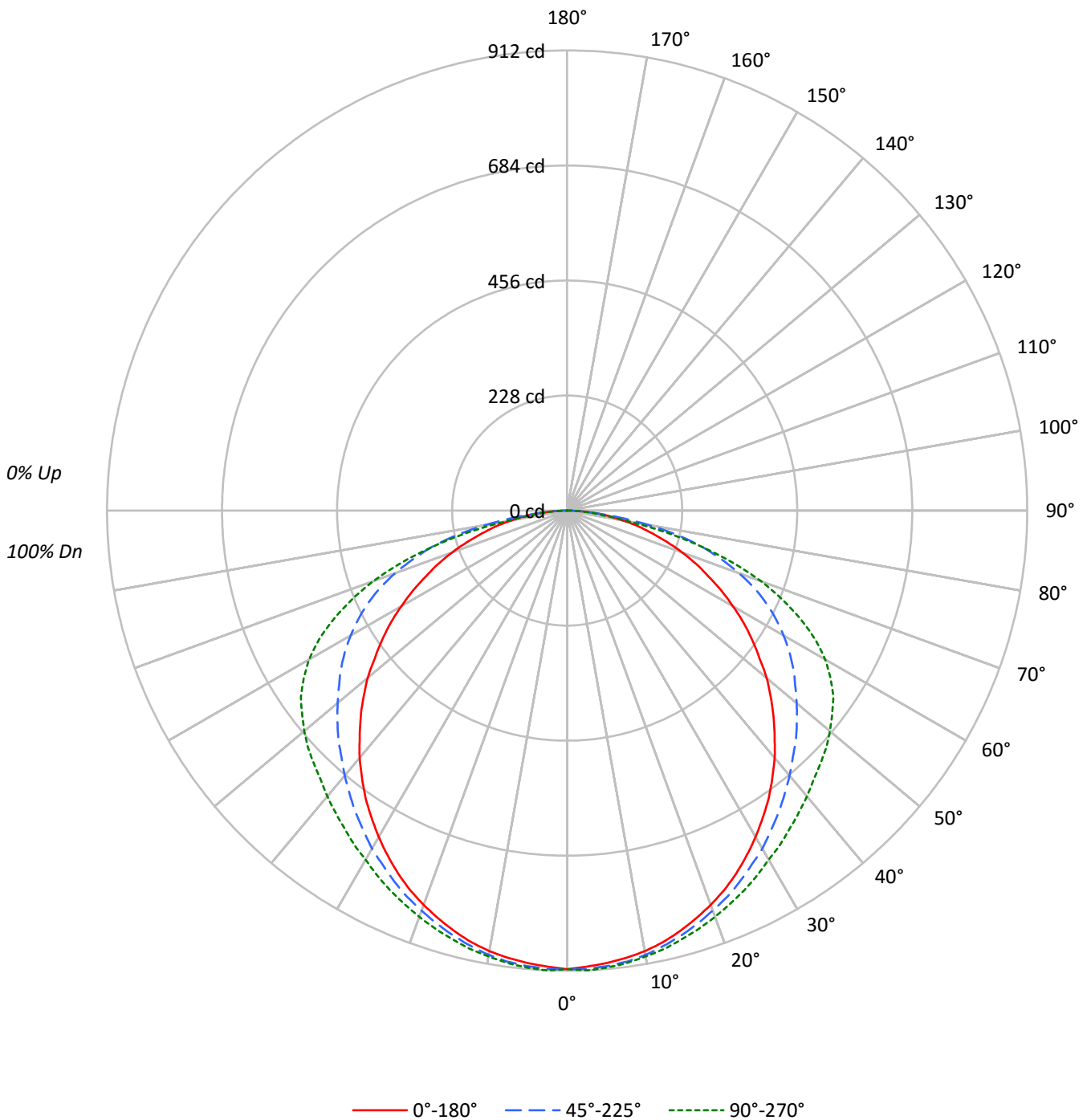
Lumens per Lamp: N/A
Luminaire Lumens: 2898.1 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.7
Input Voltage (V): NR
Input Current (Ain): 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°	2911	2911	2911
5°	2894	2913	2923
10°	2884	2908	2918
15°	2861	2891	2916
20°	2834	2875	2921
25°	2802	2865	2934
30°	2762	2861	2955
35°	2722	2856	3007
40°	2675	2867	3092
45°	2621	2904	3214
50°	2572	2958	3388
55°	2501	3057	3597
60°	2430	3174	3783
65°	2345	3304	3878
70°	2271	3399	3832
75°	2154	3425	3406
80°	2086	3019	2222
85°	1914	2131	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	3.0
10°-20°	246.0	8.5
20°-30°	374.1	12.9
30°-40°	458.2	15.8
40°-50°	496.1	17.1
50°-60°	488.1	16.8
60°-70°	418.8	14.5
70°-80°	264.1	9.1
80°-90°	66.6	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°	706.2	24.4
0°-40°	1164.3	40.2
0°-60°	2148.5	74.1
0°-90°	2898.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	900	903	906	908	909	86
15°	863	866	872	878	879	243
25°	793	798	811	824	830	365
35°	696	705	731	757	769	435
45°	579	597	641	687	710	447
55°	448	481	548	612	644	401
65°	310	363	436	490	512	307
75°	174	235	277	278	275	186
85°	52	71	58	46	45	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	909.1	909.1	909.1	909.1	909.1
2.5°	904.6	906.1	909.1	912.1	912.1
5°	900.2	903.2	906.1	907.6	909.1
7.5°	894.2	897.2	901.7	903.2	904.6
10°	886.8	888.3	894.2	897.2	897.2
12.5°	876.4	877.9	883.8	888.3	889.8
15°	863.0	866.0	871.9	877.9	879.4
17.5°	848.1	851.1	858.5	866.0	868.9
20°	831.7	834.7	843.6	852.6	857.0
22.5°	813.9	818.3	828.8	839.2	843.6
25°	793.1	797.5	810.9	824.3	830.3
27.5°	770.7	778.2	791.6	807.9	815.4
30°	746.9	754.4	773.7	791.6	799.0
32.5°	721.6	730.6	751.4	773.7	785.6
35°	696.3	705.3	730.6	757.3	769.2
37.5°	668.1	680.0	708.2	739.5	754.4
40°	639.8	653.2	685.9	721.6	739.5
42.5°	608.6	623.4	662.1	703.8	723.1
45°	578.8	596.7	641.3	687.4	709.7
47.5°	547.5	568.4	617.5	669.6	696.3
50°	516.3	538.6	593.7	651.7	680.0
52.5°	480.6	510.4	569.9	632.4	662.1
55°	447.9	480.6	547.5	611.5	644.3
57.5°	415.1	452.3	522.3	587.7	619.0
60°	379.4	422.6	495.5	559.5	590.7
62.5°	345.2	394.3	467.2	528.2	555.0
65°	309.5	363.0	436.0	489.5	511.8
67.5°	276.8	333.3	401.7	446.4	462.7
70°	242.5	303.5	363.0	395.8	409.2
72.5°	208.3	269.3	319.9	339.2	345.2
75°	174.1	235.1	276.8	278.2	275.3
77.5°	144.3	197.9	223.2	209.8	202.4
80°	113.1	159.2	163.7	136.9	120.5
82.5°	83.3	113.1	102.7	80.3	69.9
85°	52.1	71.4	58.0	46.1	44.6
87.5°	23.8	26.8	22.3	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)