

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: P189522

Luminaire Tested: **BRG-WG-3L30-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189522
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-3L30-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

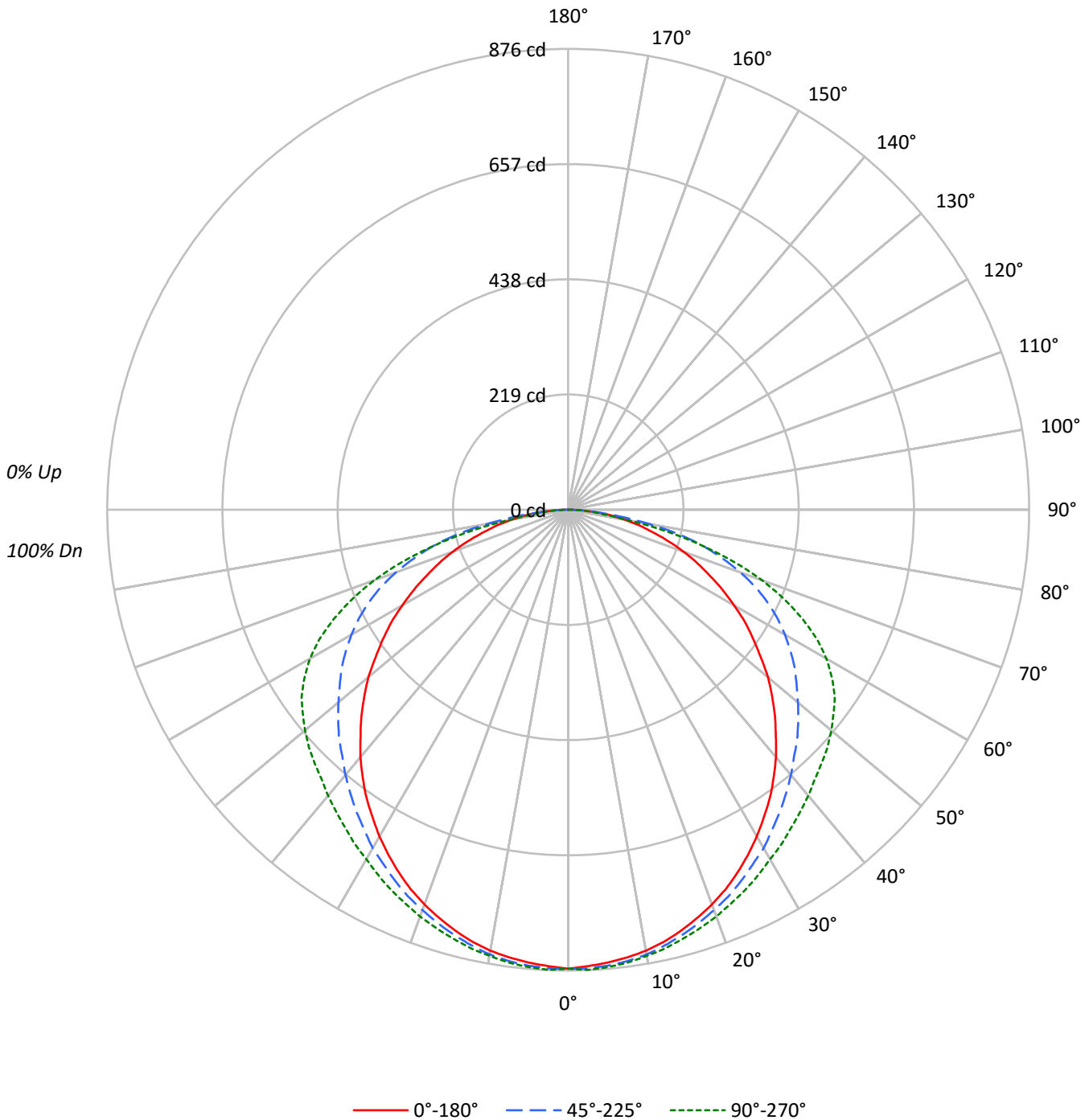
Lumens per Lamp: N/A
Luminaire Lumens: 2781.8 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

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°	2795	2795	2795
5°	2778	2796	2805
10°	2768	2791	2801
15°	2747	2775	2799
20°	2721	2760	2804
25°	2690	2751	2816
30°	2651	2746	2836
35°	2613	2742	2887
40°	2567	2752	2967
45°	2516	2788	3086
50°	2469	2839	3252
55°	2400	2935	3453
60°	2333	3046	3632
65°	2251	3171	3723
70°	2180	3263	3678
75°	2068	3288	3269
80°	2001	2897	2134
85°	1837	2047	1573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	3.0
10°-20°	236.2	8.5
20°-30°	359.1	12.9
30°-40°	439.8	15.8
40°-50°	476.2	17.1
50°-60°	468.6	16.8
60°-70°	402.0	14.5
70°-80°	253.5	9.1
80°-90°	63.9	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°	677.8	24.4
0°-40°	1117.6	40.2
0°-60°	2062.3	74.1
0°-90°	2781.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2781.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	864	867	870	871	873	82
15°	828	831	837	843	844	234
25°	761	766	778	791	797	351
35°	668	677	701	727	738	418
45°	556	573	616	660	681	429
55°	430	461	526	587	618	385
65°	297	348	418	470	491	295
75°	167	226	266	267	264	178
85°	50	69	56	44	43	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	872.6	872.6	872.6	872.6	872.6
2.5°	868.4	869.8	872.6	875.5	875.5
5°	864.1	866.9	869.8	871.2	872.6
7.5°	858.4	861.2	865.5	866.9	868.4
10°	851.2	852.7	858.4	861.2	861.2
12.5°	841.2	842.7	848.4	852.7	854.1
15°	828.4	831.2	836.9	842.7	844.1
17.5°	814.1	816.9	824.1	831.2	834.1
20°	798.4	801.2	809.8	818.4	822.7
22.5°	781.2	785.5	795.5	805.5	809.8
25°	761.2	765.5	778.4	791.2	797.0
27.5°	739.8	747.0	759.8	775.5	782.7
30°	717.0	724.1	742.7	759.8	767.0
32.5°	692.7	701.3	721.3	742.7	754.1
35°	668.4	677.0	701.3	727.0	738.4
37.5°	641.3	652.7	679.8	709.8	724.1
40°	614.1	627.0	658.4	692.7	709.8
42.5°	584.1	598.4	635.6	675.6	694.1
45°	555.6	572.7	615.6	659.8	681.3
47.5°	525.6	545.6	592.7	642.7	668.4
50°	495.6	517.0	569.9	625.6	652.7
52.5°	461.3	489.9	547.0	607.0	635.6
55°	429.9	461.3	525.6	587.0	618.4
57.5°	398.5	434.2	501.3	564.2	594.1
60°	364.2	405.6	475.6	537.0	567.0
62.5°	331.3	378.5	448.5	507.0	532.7
65°	297.1	348.5	418.5	469.9	491.3
67.5°	265.7	319.9	385.6	428.5	444.2
70°	232.8	291.4	348.5	379.9	392.8
72.5°	200.0	258.5	307.1	325.6	331.3
75°	167.1	225.7	265.7	267.1	264.2
77.5°	138.5	190.0	214.2	201.4	194.2
80°	108.5	152.8	157.1	131.4	115.7
82.5°	80.0	108.5	98.5	77.1	67.1
85°	50.0	68.6	55.7	44.3	42.8
87.5°	22.9	25.7	21.4	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)