

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: P189591

Luminaire Tested: **BRG-WG-3L30-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34883)
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-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 3 (865 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

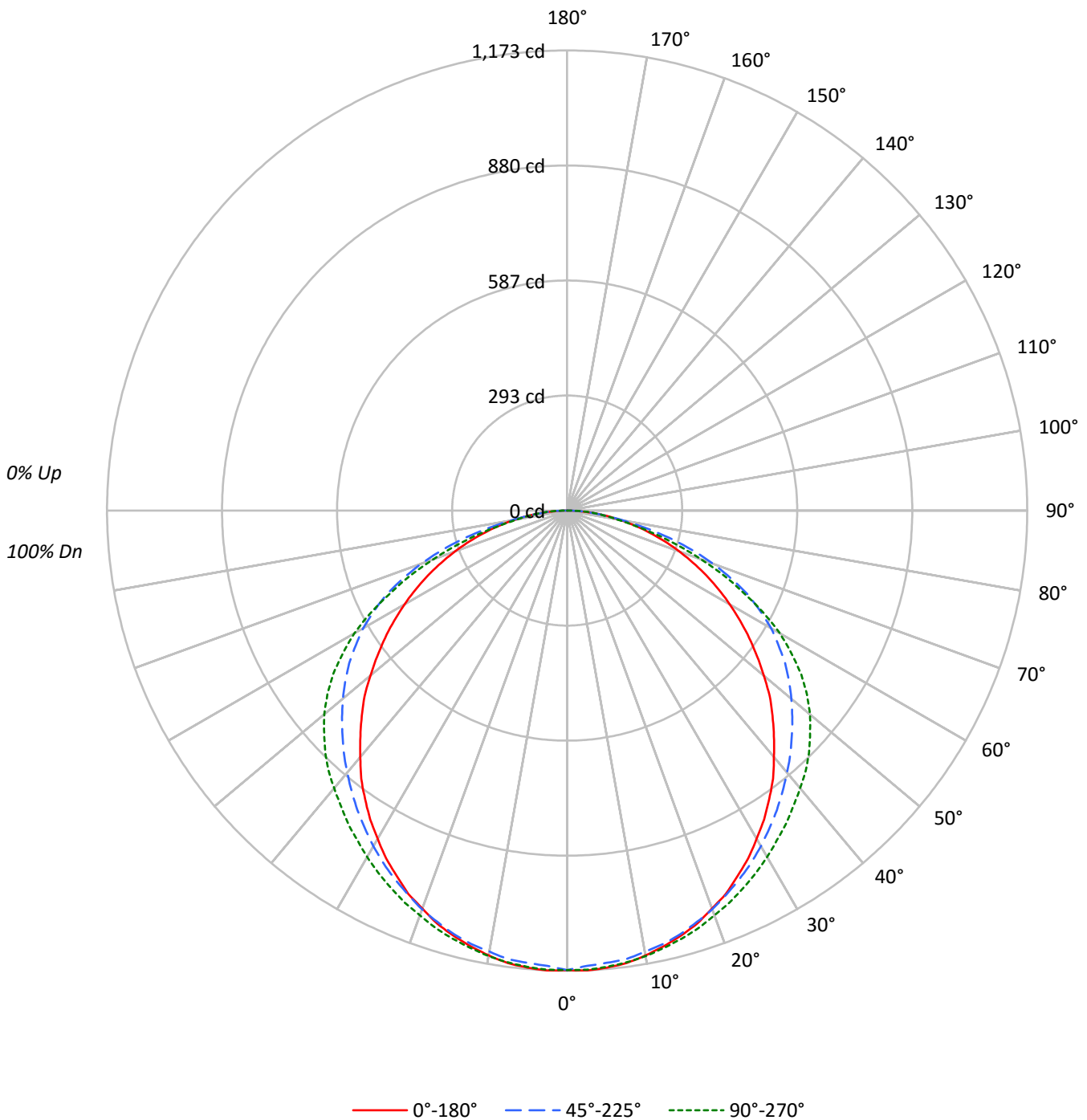
Lumens per Lamp: N/A
Luminaire Lumens: 3528.2 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3588	3588	3588
5°	3596	3559	3590
10°	3582	3551	3588
15°	3557	3544	3582
20°	3519	3526	3578
25°	3474	3507	3588
30°	3417	3494	3607
35°	3358	3485	3642
40°	3280	3487	3695
45°	3207	3510	3778
50°	3120	3557	3852
55°	3027	3624	3890
60°	2934	3680	3839
65°	2835	3689	3602
70°	2716	3539	3253
75°	2574	3188	2764
80°	2394	2570	2253
85°	2176	2105	2246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	3.1
10°-20°	316.9	9.0
20°-30°	480.8	13.6
30°-40°	585.1	16.6
40°-50°	624.2	17.7
50°-60°	592.0	16.8
60°-70°	472.6	13.4
70°-80°	272.3	7.7
80°-90°	73.5	2.1
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°	908.5	25.7
0°-40°	1493.6	42.3
0°-60°	2709.8	76.8
0°-90°	3528.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3528.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1169	1167	1157	1167	1167	111
15°	1122	1122	1118	1130	1130	316
25°	1028	1032	1038	1058	1062	474
35°	898	908	932	964	974	562
45°	740	762	810	856	872	571
55°	567	611	678	718	728	507
65°	391	461	509	505	497	387
75°	218	293	269	244	234	231
85°	62	66	60	62	64	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1171.4	1171.4	1171.4	1171.4	1171.4
2.5°	1173.4	1171.4	1161.4	1171.4	1171.4
5°	1169.4	1167.4	1157.4	1167.4	1167.4
7.5°	1163.4	1161.4	1153.4	1161.4	1161.4
10°	1151.5	1149.5	1141.5	1153.4	1153.4
12.5°	1137.5	1137.5	1131.5	1141.5	1141.5
15°	1121.5	1121.5	1117.5	1129.5	1129.5
17.5°	1103.6	1101.6	1099.6	1113.5	1115.5
20°	1079.6	1079.6	1081.6	1095.6	1097.6
22.5°	1057.7	1057.7	1059.7	1077.6	1081.6
25°	1027.7	1031.7	1037.7	1057.7	1061.6
27.5°	999.8	1001.8	1013.8	1035.7	1041.7
30°	965.9	973.8	987.8	1011.8	1019.7
32.5°	933.9	941.9	959.9	987.8	995.8
35°	898.0	908.0	931.9	963.9	973.8
37.5°	862.1	872.1	902.0	937.9	947.9
40°	820.2	838.1	872.1	910.0	924.0
42.5°	780.3	800.2	842.1	884.0	900.0
45°	740.4	762.3	810.2	856.1	872.1
47.5°	700.4	724.4	778.3	826.2	840.1
50°	654.6	686.5	746.3	792.2	808.2
52.5°	610.6	648.6	712.4	758.3	770.3
55°	566.7	610.6	678.5	718.4	728.4
57.5°	522.8	572.7	638.6	672.5	678.5
60°	478.9	534.8	600.7	622.6	626.6
62.5°	435.0	498.9	554.8	566.7	564.7
65°	391.1	461.0	508.9	504.9	496.9
67.5°	347.2	421.1	453.0	439.0	433.0
70°	303.3	381.2	395.1	373.2	363.2
72.5°	261.4	339.2	333.3	307.3	297.3
75°	217.5	293.4	269.4	243.5	233.5
77.5°	177.6	243.5	203.5	179.6	173.6
80°	135.7	185.6	145.7	129.7	127.7
82.5°	97.8	123.7	95.8	93.8	93.8
85°	61.9	65.9	59.9	61.9	63.9
87.5°	27.9	29.9	31.9	31.9	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)