

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: P189601

Luminaire Tested: **BRG-WG-3L40-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189601
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-3L40-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) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

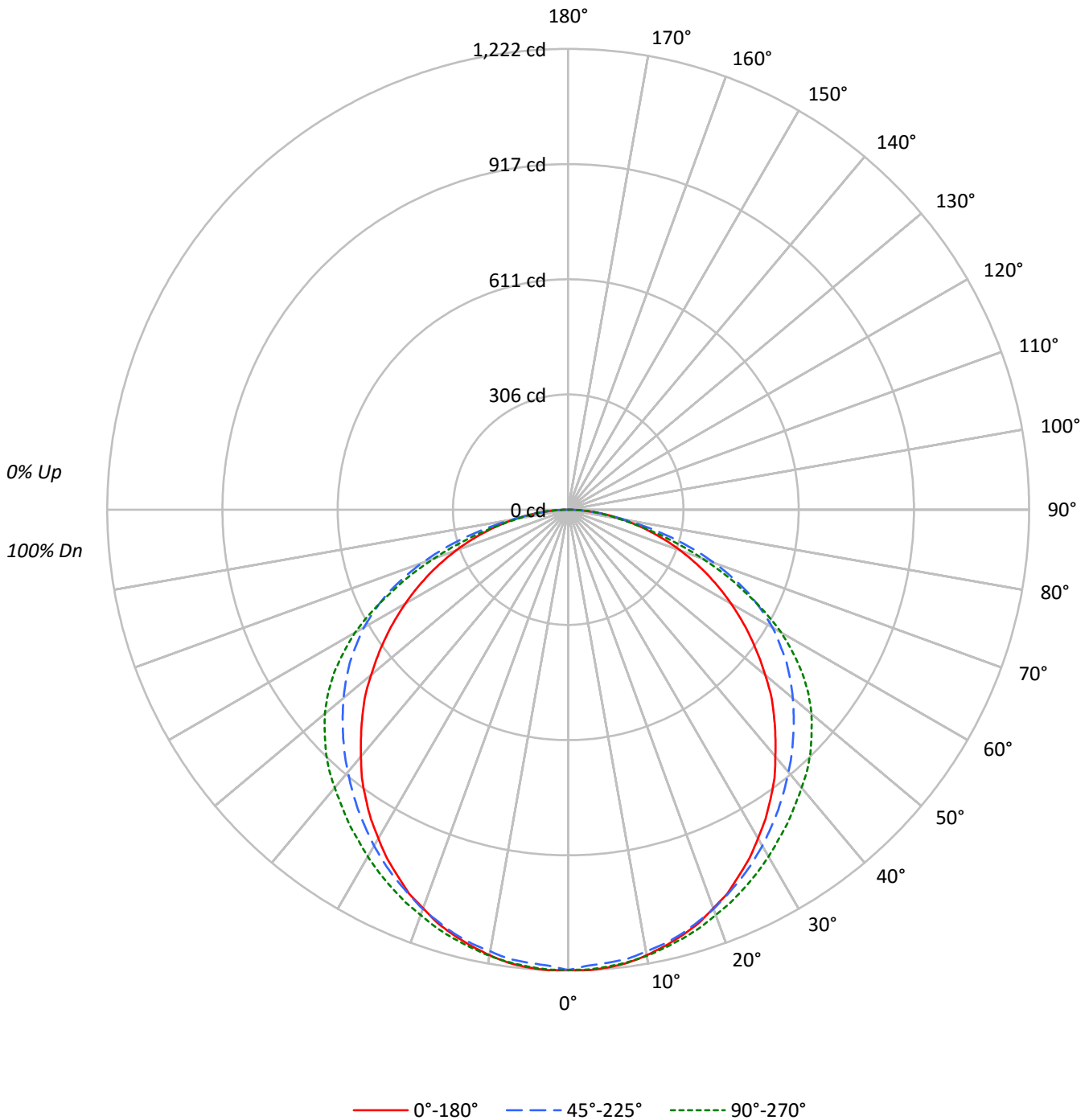
Lumens per Lamp: N/A
Luminaire Lumens: 3675.6 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (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	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°	3738	3738	3738
5°	3746	3708	3740
10°	3731	3699	3738
15°	3705	3692	3732
20°	3666	3673	3727
25°	3619	3654	3738
30°	3559	3640	3757
35°	3498	3631	3794
40°	3417	3633	3849
45°	3341	3657	3936
50°	3250	3705	4013
55°	3153	3775	4052
60°	3057	3834	3999
65°	2954	3842	3752
70°	2830	3686	3389
75°	2682	3322	2878
80°	2494	2678	2348
85°	2263	2193	2337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	3.1
10°-20°	330.2	9.0
20°-30°	500.9	13.6
30°-40°	609.6	16.6
40°-50°	650.3	17.7
50°-60°	616.8	16.8
60°-70°	492.4	13.4
70°-80°	283.6	7.7
80°-90°	76.6	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°	946.4	25.7
0°-40°	1556.0	42.3
0°-60°	2823.1	76.8
0°-90°	3675.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3675.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1218	1216	1206	1216	1216	116
15°	1168	1168	1164	1177	1177	330
25°	1071	1075	1081	1102	1106	494
35°	936	946	971	1004	1014	585
45°	771	794	844	892	908	595
55°	590	636	707	748	759	528
65°	408	480	530	526	518	403
75°	227	306	281	254	243	241
85°	64	69	62	64	66	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.4	1220.4	1220.4	1220.4	1220.4
2.5°	1222.4	1220.4	1210.0	1220.4	1220.4
5°	1218.3	1216.2	1205.8	1216.2	1216.2
7.5°	1212.0	1210.0	1201.6	1210.0	1210.0
10°	1199.6	1197.5	1189.2	1201.6	1201.6
12.5°	1185.0	1185.0	1178.8	1189.2	1189.2
15°	1168.4	1168.4	1164.2	1176.7	1176.7
17.5°	1149.7	1147.6	1145.5	1160.1	1162.1
20°	1124.7	1124.7	1126.8	1141.4	1143.4
22.5°	1101.9	1101.9	1103.9	1122.6	1126.8
25°	1070.7	1074.8	1081.1	1101.9	1106.0
27.5°	1041.6	1043.6	1056.1	1079.0	1085.2
30°	1006.2	1014.5	1029.1	1054.0	1062.3
32.5°	973.0	981.3	1000.0	1029.1	1037.4
35°	935.5	945.9	970.9	1004.1	1014.5
37.5°	898.1	908.5	939.7	977.1	987.5
40°	854.5	873.2	908.5	948.0	962.6
42.5°	812.9	833.7	877.3	921.0	937.6
45°	771.3	794.2	844.1	891.9	908.5
47.5°	729.7	754.7	810.8	860.7	875.2
50°	681.9	715.2	777.5	825.3	842.0
52.5°	636.2	675.7	742.2	790.0	802.5
55°	590.4	636.2	706.8	748.4	758.8
57.5°	544.7	596.7	665.3	700.6	706.8
60°	499.0	557.2	625.8	648.6	652.8
62.5°	453.2	519.7	578.0	590.4	588.3
65°	407.5	480.2	530.1	526.0	517.7
67.5°	361.7	438.7	471.9	457.4	451.1
70°	316.0	397.1	411.6	388.8	378.4
72.5°	272.3	353.4	347.2	320.2	309.8
75°	226.6	305.6	280.7	253.6	243.2
77.5°	185.0	253.6	212.1	187.1	180.9
80°	141.4	193.3	151.8	135.1	133.1
82.5°	101.9	128.9	99.8	97.7	97.7
85°	64.4	68.6	62.4	64.4	66.5
87.5°	29.1	31.2	33.3	33.3	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)