

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: P189536

Luminaire Tested: **BRG-WG-5L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189536
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-5L40-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 5 (845 mA)
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

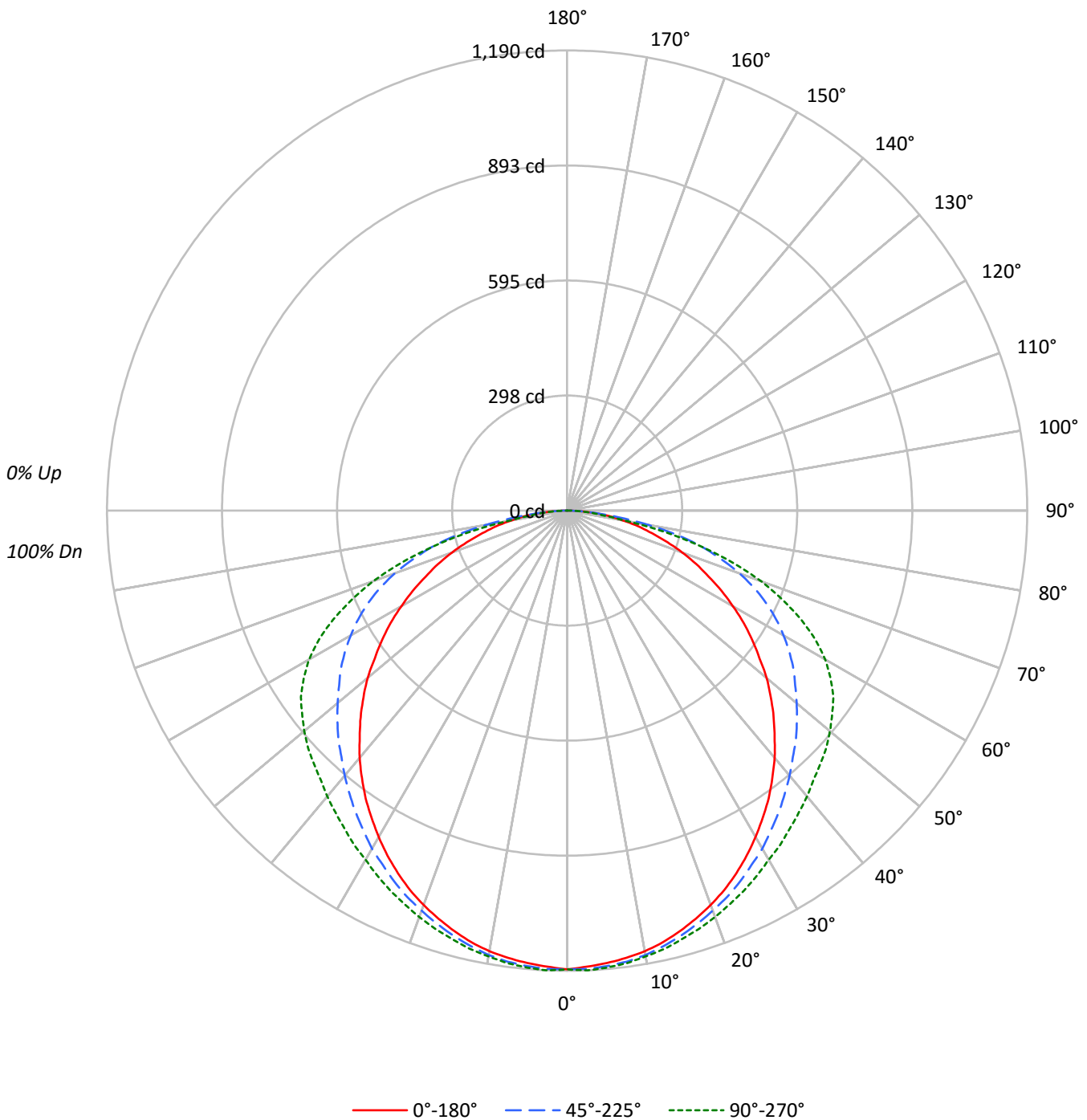
Lumens per Lamp: N/A
Luminaire Lumens: 3781.8 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.1
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°	3799	3799	3799
5°	3776	3801	3814
10°	3763	3795	3807
15°	3734	3772	3805
20°	3699	3752	3812
25°	3657	3739	3828
30°	3604	3733	3856
35°	3553	3727	3924
40°	3490	3742	4034
45°	3421	3790	4195
50°	3357	3860	4421
55°	3263	3989	4694
60°	3171	4141	4937
65°	3061	4311	5061
70°	2964	4436	4999
75°	2811	4468	4445
80°	2722	3939	2901
85°	2499	2782	2139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	3.0
10°-20°	321.1	8.5
20°-30°	488.1	12.9
30°-40°	597.9	15.8
40°-50°	647.3	17.1
50°-60°	637.0	16.8
60°-70°	546.5	14.5
70°-80°	344.7	9.1
80°-90°	86.9	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°	921.5	24.4
0°-40°	1519.3	40.2
0°-60°	2803.7	74.1
0°-90°	3781.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3781.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1175	1179	1182	1184	1186	112
15°	1126	1130	1138	1146	1148	318
25°	1035	1041	1058	1076	1083	477
35°	909	920	953	988	1004	568
45°	755	779	837	897	926	583
55°	584	627	714	798	841	523
65°	404	474	569	639	668	401
75°	227	307	361	363	359	242
85°	68	93	76	60	58	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1186.3	1186.3	1186.3	1186.3	1186.3
2.5°	1180.5	1182.5	1186.3	1190.2	1190.2
5°	1174.7	1178.6	1182.5	1184.4	1186.3
7.5°	1166.9	1170.8	1176.6	1178.6	1180.5
10°	1157.2	1159.2	1166.9	1170.8	1170.8
12.5°	1143.6	1145.6	1153.3	1159.2	1161.1
15°	1126.1	1130.0	1137.8	1145.6	1147.5
17.5°	1106.7	1110.6	1120.3	1130.0	1133.9
20°	1085.4	1089.3	1100.9	1112.6	1118.4
22.5°	1062.1	1067.9	1081.5	1095.1	1100.9
25°	1034.9	1040.7	1058.2	1075.7	1083.4
27.5°	1005.8	1015.5	1032.9	1054.3	1064.0
30°	974.7	984.4	1009.6	1032.9	1042.7
32.5°	941.7	953.3	980.5	1009.6	1025.2
35°	908.7	920.3	953.3	988.3	1003.8
37.5°	871.8	887.3	924.2	965.0	984.4
40°	834.9	852.4	895.1	941.7	965.0
42.5°	794.1	813.5	864.0	918.4	943.6
45°	755.3	778.6	836.8	897.0	926.2
47.5°	714.5	741.7	805.8	873.7	908.7
50°	673.7	702.9	774.7	850.4	887.3
52.5°	627.1	666.0	743.6	825.2	864.0
55°	584.4	627.1	714.5	798.0	840.7
57.5°	541.7	590.3	681.5	766.9	807.7
60°	495.1	551.4	646.6	730.1	770.8
62.5°	450.5	514.5	609.7	689.3	724.2
65°	403.9	473.8	568.9	638.8	667.9
67.5°	361.1	434.9	524.2	582.5	603.8
70°	316.5	396.1	473.8	516.5	533.9
72.5°	271.8	351.4	417.5	442.7	450.5
75°	227.2	306.8	361.1	363.1	359.2
77.5°	188.3	258.2	291.2	273.8	264.1
80°	147.6	207.8	213.6	178.6	157.3
82.5°	108.7	147.6	134.0	104.8	91.3
85°	68.0	93.2	75.7	60.2	58.2
87.5°	31.1	34.9	29.1	29.1	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)