

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: P189599

Luminaire Tested: **BRG-WG-1L40-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189599
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-1L40-LD2-UNV-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 1 (425 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1841.9 lumens
Efficiency: N/A
Efficacy: 98.5 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

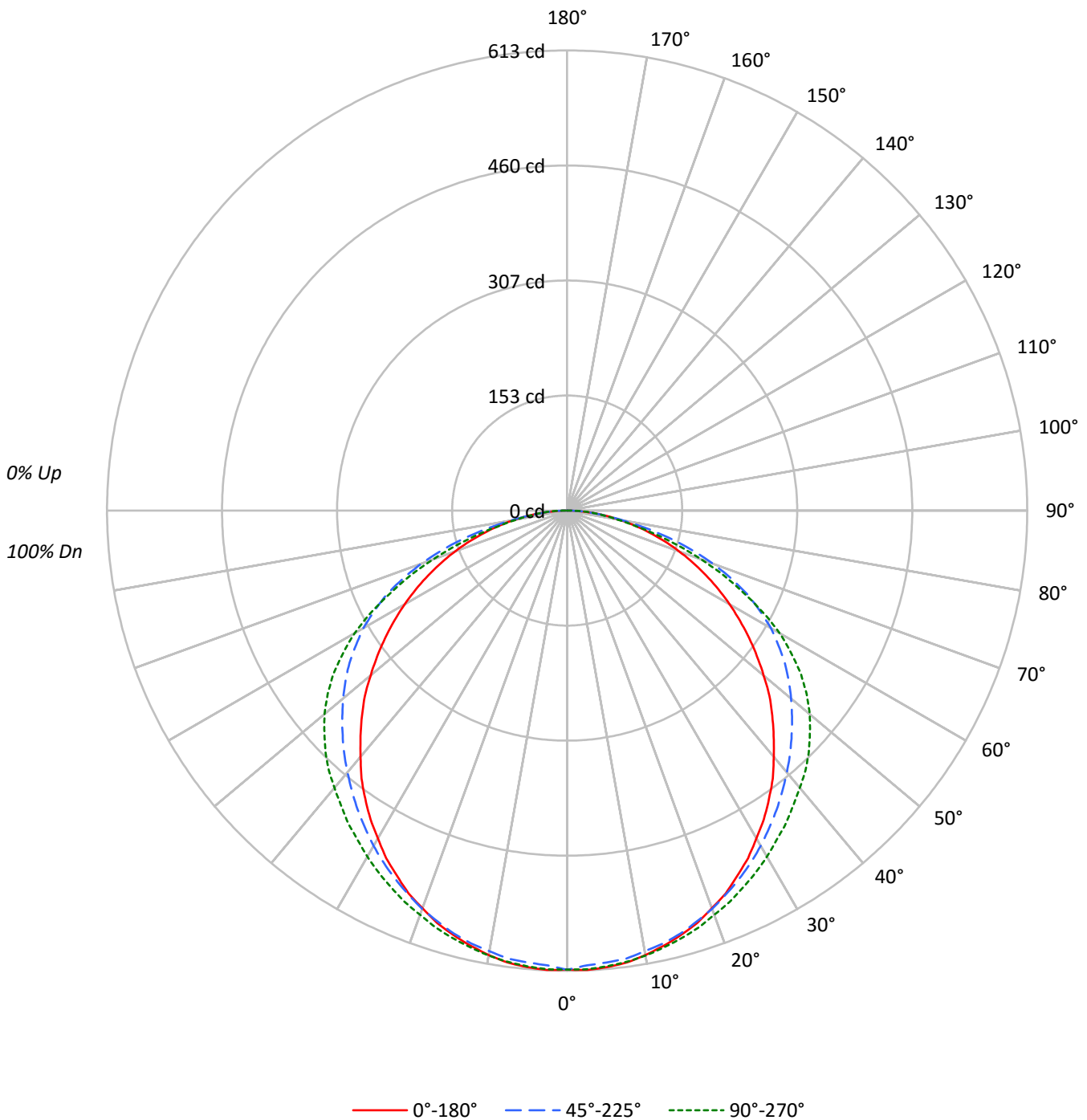
Input Watts (W): 18.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1873	1873	1873
5°	1877	1858	1874
10°	1870	1854	1873
15°	1857	1850	1870
20°	1837	1841	1868
25°	1813	1831	1873
30°	1783	1824	1883
35°	1753	1819	1901
40°	1712	1821	1929
45°	1674	1832	1972
50°	1628	1857	2011
55°	1580	1892	2031
60°	1532	1921	2004
65°	1480	1926	1880
70°	1419	1848	1698
75°	1345	1664	1443
80°	1249	1342	1177
85°	1135	1100	1170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	3.1
10°-20°	165.4	9.0
20°-30°	251.0	13.6
30°-40°	305.5	16.6
40°-50°	325.9	17.7
50°-60°	309.1	16.8
60°-70°	246.7	13.4
70°-80°	142.1	7.7
80°-90°	38.4	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°	474.2	25.7
0°-40°	779.7	42.3
0°-60°	1414.7	76.8
0°-90°	1841.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1841.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	610	609	604	609	609	58
15°	586	586	583	590	590	165
25°	536	539	542	552	554	247
35°	469	474	486	503	508	293
45°	386	398	423	447	455	298
55°	296	319	354	375	380	265
65°	204	241	266	264	259	202
75°	114	153	141	127	122	121
85°	32	34	31	32	33	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	611.5	611.5	611.5	611.5	611.5
2.5°	612.6	611.5	606.3	611.5	611.5
5°	610.5	609.4	604.2	609.4	609.4
7.5°	607.4	606.3	602.1	606.3	606.3
10°	601.1	600.1	595.9	602.1	602.1
12.5°	593.8	593.8	590.7	595.9	595.9
15°	585.5	585.5	583.4	589.6	589.6
17.5°	576.1	575.1	574.0	581.3	582.4
20°	563.6	563.6	564.6	571.9	573.0
22.5°	552.1	552.1	553.2	562.6	564.6
25°	536.5	538.6	541.7	552.1	554.2
27.5°	521.9	523.0	529.2	540.7	543.8
30°	504.2	508.4	515.7	528.2	532.4
32.5°	487.6	491.7	501.1	515.7	519.8
35°	468.8	474.0	486.5	503.2	508.4
37.5°	450.0	455.3	470.9	489.6	494.8
40°	428.2	437.5	455.3	475.1	482.3
42.5°	407.3	417.8	439.6	461.5	469.8
45°	386.5	398.0	423.0	446.9	455.3
47.5°	365.7	378.2	406.3	431.3	438.6
50°	341.7	358.4	389.6	413.6	421.9
52.5°	318.8	338.6	371.9	395.9	402.1
55°	295.9	318.8	354.2	375.0	380.3
57.5°	272.9	299.0	333.4	351.1	354.2
60°	250.0	279.2	313.6	325.0	327.1
62.5°	227.1	260.4	289.6	295.9	294.8
65°	204.2	240.7	265.7	263.6	259.4
67.5°	181.3	219.8	236.5	229.2	226.1
70°	158.4	199.0	206.3	194.8	189.6
72.5°	136.5	177.1	174.0	160.4	155.2
75°	113.6	153.1	140.6	127.1	121.9
77.5°	92.7	127.1	106.3	93.8	90.6
80°	70.8	96.9	76.1	67.7	66.7
82.5°	51.0	64.6	50.0	49.0	49.0
85°	32.3	34.4	31.3	32.3	33.3
87.5°	14.6	15.6	16.7	16.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)