

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: P189532

Luminaire Tested: **BRG-WG-1L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189532
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-1L40-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 1 (408 mA)
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

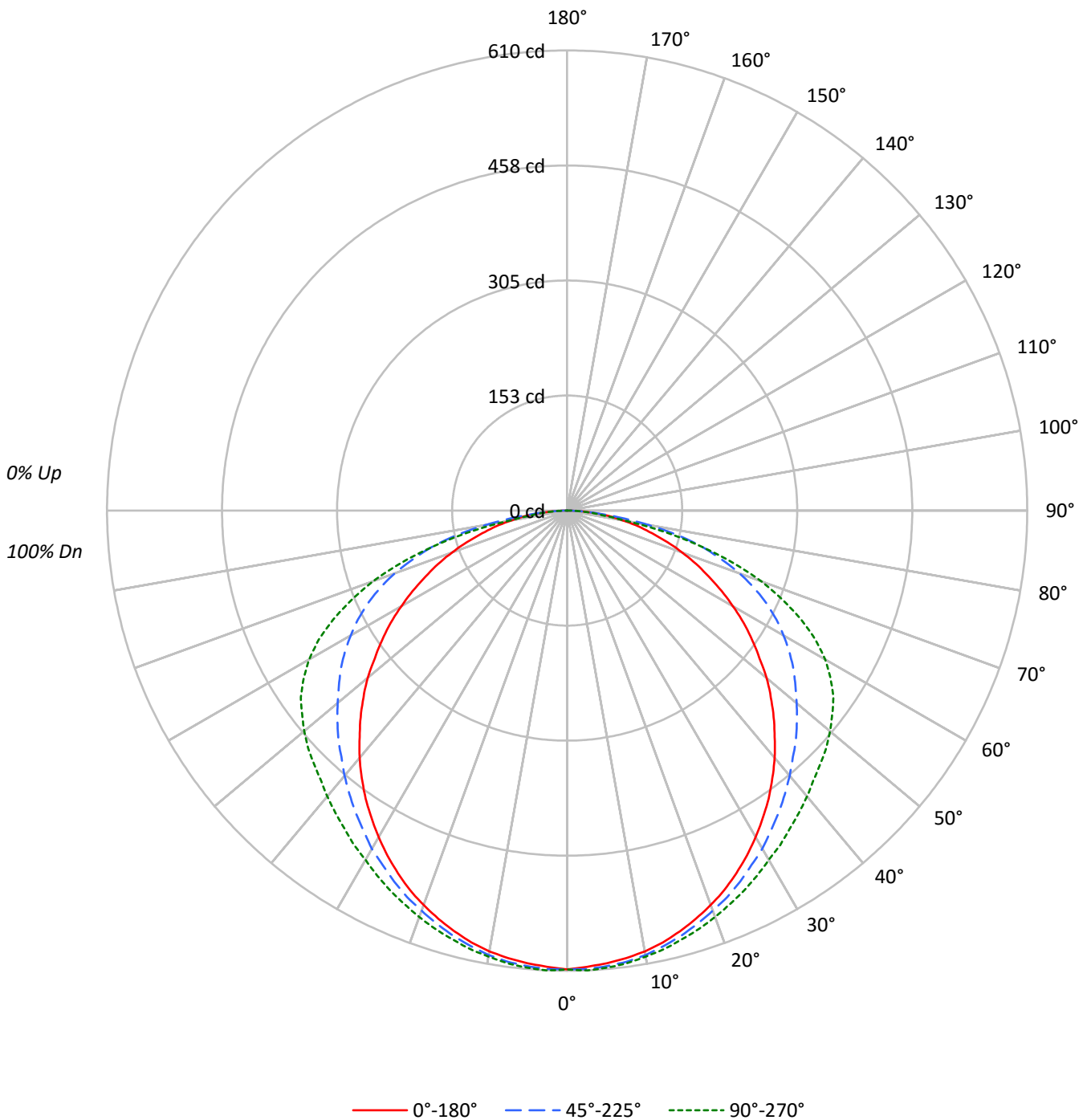
Lumens per Lamp: N/A
Luminaire Lumens: 1939.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 18.6
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°	1948	1948	1948
5°	1936	1949	1955
10°	1929	1946	1952
15°	1914	1934	1950
20°	1897	1923	1954
25°	1875	1917	1963
30°	1848	1914	1977
35°	1821	1911	2012
40°	1790	1918	2069
45°	1754	1943	2150
50°	1721	1979	2266
55°	1673	2045	2406
60°	1626	2123	2531
65°	1569	2210	2595
70°	1520	2274	2564
75°	1442	2292	2279
80°	1396	2019	1486
85°	1279	1426	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	3.0
10°-20°	164.6	8.5
20°-30°	250.3	12.9
30°-40°	306.5	15.8
40°-50°	331.9	17.1
50°-60°	326.6	16.8
60°-70°	280.2	14.5
70°-80°	176.7	9.1
80°-90°	44.6	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°	472.5	24.4
0°-40°	779.0	40.2
0°-60°	1437.5	74.1
0°-90°	1939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	602	604	606	607	608	57
15°	577	579	583	587	588	163
25°	531	534	542	552	556	244
35°	466	472	489	507	515	291
45°	387	399	429	460	475	299
55°	300	322	366	409	431	268
65°	207	243	292	328	342	206
75°	116	157	185	186	184	124
85°	35	48	39	31	30	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	608.2	608.2	608.2	608.2	608.2
2.5°	605.3	606.3	608.2	610.2	610.2
5°	602.3	604.3	606.3	607.2	608.2
7.5°	598.3	600.3	603.3	604.3	605.3
10°	593.3	594.3	598.3	600.3	600.3
12.5°	586.3	587.3	591.3	594.3	595.3
15°	577.4	579.4	583.4	587.3	588.3
17.5°	567.4	569.4	574.4	579.4	581.4
20°	556.5	558.5	564.4	570.4	573.4
22.5°	544.5	547.5	554.5	561.5	564.4
25°	530.6	533.6	542.5	551.5	555.5
27.5°	515.7	520.6	529.6	540.5	545.5
30°	499.7	504.7	517.7	529.6	534.6
32.5°	482.8	488.8	502.7	517.7	525.6
35°	465.9	471.9	488.8	506.7	514.7
37.5°	447.0	454.9	473.9	494.8	504.7
40°	428.1	437.0	458.9	482.8	494.8
42.5°	407.2	417.1	443.0	470.9	483.8
45°	387.2	399.2	429.1	459.9	474.8
47.5°	366.3	380.3	413.1	448.0	465.9
50°	345.4	360.4	397.2	436.0	454.9
52.5°	321.5	341.5	381.3	423.1	443.0
55°	299.6	321.5	366.3	409.1	431.0
57.5°	277.7	302.6	349.4	393.2	414.1
60°	253.8	282.7	331.5	374.3	395.2
62.5°	231.0	263.8	312.6	353.4	371.3
65°	207.1	242.9	291.7	327.5	342.4
67.5°	185.2	223.0	268.8	298.6	309.6
70°	162.3	203.1	242.9	264.8	273.8
72.5°	139.4	180.2	214.0	227.0	231.0
75°	116.5	157.3	185.2	186.2	184.2
77.5°	96.6	132.4	149.3	140.4	135.4
80°	75.7	106.5	109.5	91.6	80.6
82.5°	55.7	75.7	68.7	53.8	46.8
85°	34.8	47.8	38.8	30.9	29.9
87.5°	15.9	17.9	14.9	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)