

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: P189674

Luminaire Tested: **BRG-WG-1L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34874)
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-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 1 (615 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

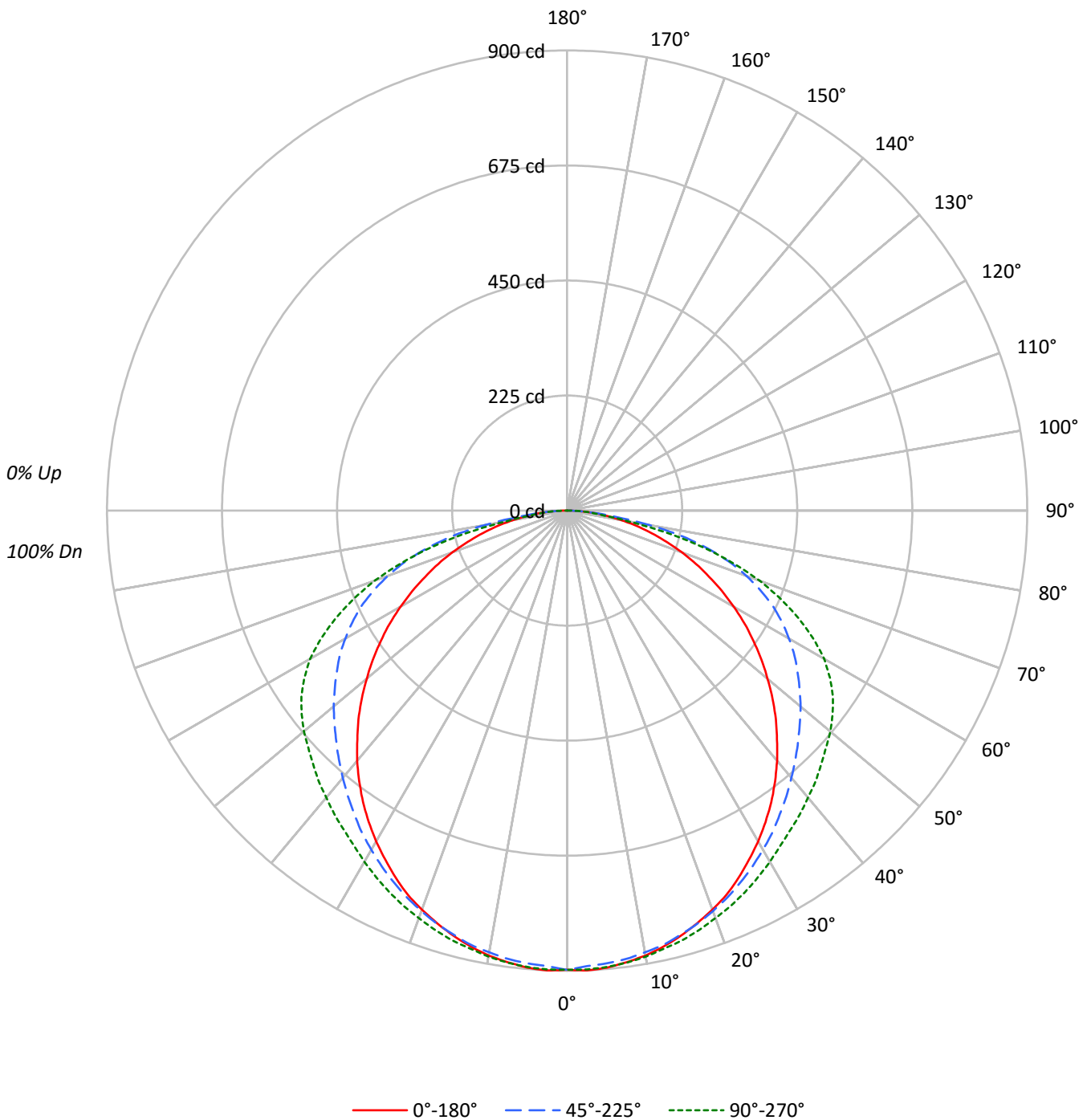
Lumens per Lamp: N/A
Luminaire Lumens: 2897.2 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 27.1
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	88	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	76	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	69	64	59	67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	42	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	43	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1376	1376	1376
5°	1379	1367	1378
10°	1374	1365	1377
15°	1365	1361	1380
20°	1354	1359	1383
25°	1340	1356	1391
30°	1321	1355	1402
35°	1302	1356	1424
40°	1277	1365	1465
45°	1250	1384	1521
50°	1219	1420	1601
55°	1188	1469	1695
60°	1152	1535	1778
65°	1110	1612	1813
70°	1068	1670	1792
75°	1011	1677	1616
80°	946	1452	1066
85°	861	898	805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	2.9
10°-20°	243.7	8.4
20°-30°	371.6	12.8
30°-40°	455.8	15.7
40°-50°	494.3	17.1
50°-60°	487.9	16.8
60°-70°	421.1	14.5
70°-80°	270.0	9.3
80°-90°	67.9	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°	700.2	24.2
0°-40°	1156.0	39.9
0°-60°	2138.2	73.8
0°-90°	2897.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2897.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	897	895	889	895	896	85
15°	861	861	859	868	870	243
25°	793	795	802	818	823	365
35°	696	703	725	752	762	435
45°	577	596	639	684	702	445
55°	445	484	550	610	635	398
65°	306	372	445	489	500	304
75°	171	255	283	279	273	181
85°	49	76	51	47	46	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.2	898.2	898.2	898.2	898.2
2.5°	900.3	898.2	892.0	898.2	898.2
5°	897.2	895.1	888.9	895.1	896.1
7.5°	890.9	889.9	884.7	890.9	892.0
10°	883.6	882.6	877.4	884.7	885.7
12.5°	873.2	872.2	870.1	877.4	877.4
15°	860.7	860.7	858.6	868.0	870.1
17.5°	846.1	847.2	847.2	857.6	859.7
20°	830.5	831.5	833.6	845.1	848.2
22.5°	813.8	813.8	819.0	832.6	836.8
25°	793.0	795.1	802.4	818.0	823.2
27.5°	770.1	774.2	784.7	802.4	808.6
30°	747.1	752.3	765.9	785.7	793.0
32.5°	722.1	728.4	747.1	769.0	776.3
35°	696.1	703.4	725.3	752.3	761.7
37.5°	667.9	677.3	704.4	735.7	748.2
40°	638.8	651.3	682.5	718.0	732.6
42.5°	607.5	624.2	660.6	701.3	719.0
45°	577.3	596.0	638.8	683.6	702.3
47.5°	545.0	569.0	616.9	665.9	686.7
50°	511.6	538.7	596.0	649.2	672.1
52.5°	479.3	511.6	573.1	630.4	654.4
55°	444.9	483.5	550.2	609.6	634.6
57.5°	411.6	456.4	527.3	586.7	609.6
60°	376.2	427.2	501.2	559.6	580.4
62.5°	341.8	401.2	474.1	526.2	542.9
65°	306.4	372.0	444.9	488.7	500.2
67.5°	273.0	344.9	410.6	444.9	452.2
70°	238.6	316.8	373.0	398.1	400.1
72.5°	204.2	285.5	332.4	338.7	338.7
75°	170.9	255.3	283.4	279.3	273.0
77.5°	139.6	217.8	229.2	211.5	198.0
80°	107.3	179.2	164.6	133.4	120.9
82.5°	77.1	133.4	96.9	76.1	71.9
85°	49.0	76.1	51.1	46.9	45.8
87.5°	22.9	28.1	22.9	25.0	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)