

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: P189666

Luminaire Tested: **BRG-WG-3L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189666
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-3L30-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 3 (1040 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

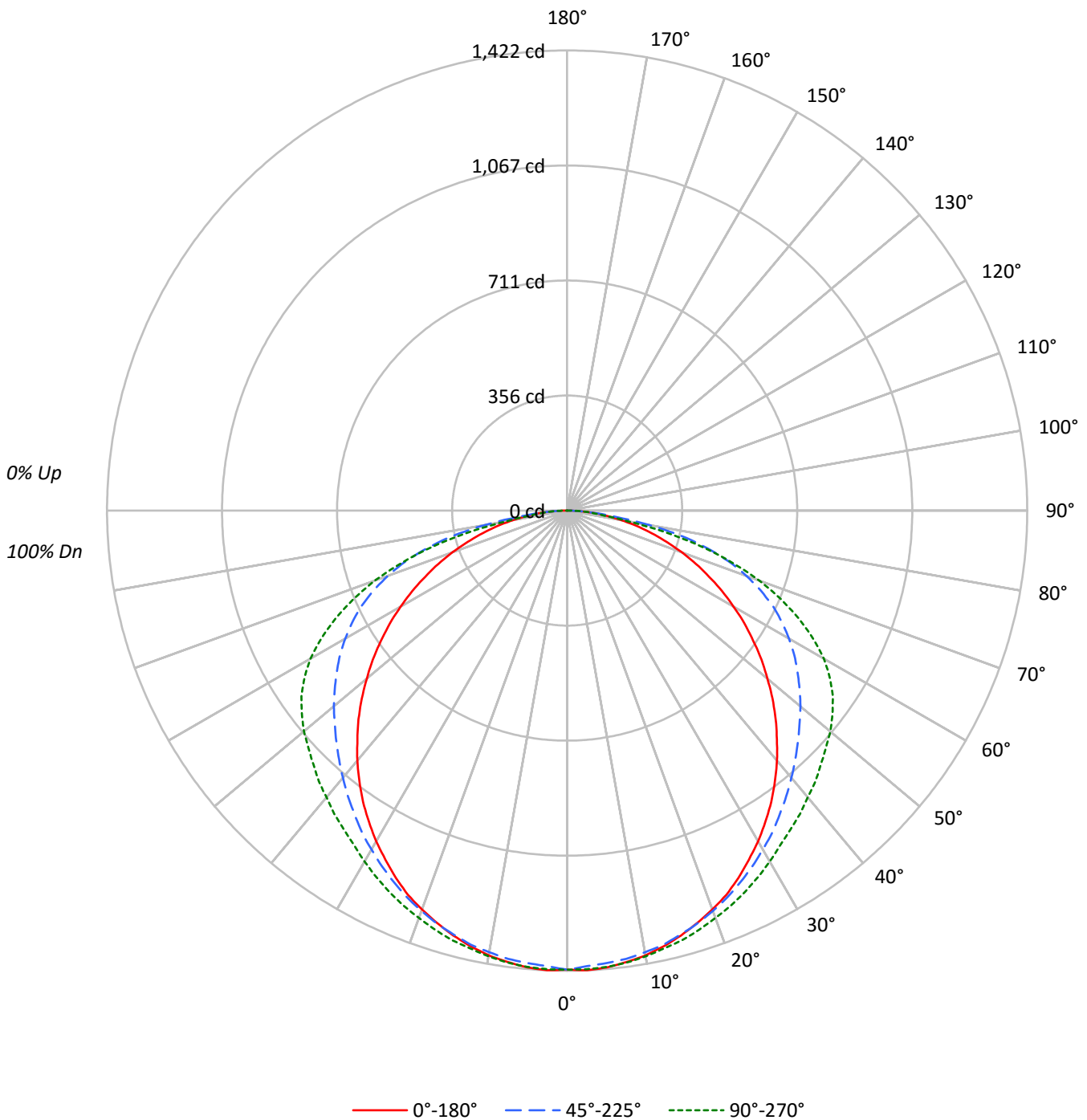
Lumens per Lamp: N/A
Luminaire Lumens: 4575.7 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 47.2
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	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°	2173	2173	2173
5°	2179	2158	2176
10°	2171	2155	2176
15°	2156	2150	2179
20°	2138	2146	2183
25°	2117	2142	2197
30°	2087	2139	2215
35°	2056	2142	2249
40°	2017	2155	2313
45°	1975	2185	2403
50°	1926	2243	2529
55°	1876	2320	2676
60°	1820	2425	2808
65°	1754	2547	2863
70°	1688	2639	2830
75°	1597	2649	2552
80°	1495	2293	1684
85°	1360	1416	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	2.9
10°-20°	384.9	8.4
20°-30°	586.8	12.8
30°-40°	719.8	15.7
40°-50°	780.7	17.1
50°-60°	770.6	16.8
60°-70°	665.1	14.5
70°-80°	426.4	9.3
80°-90°	107.2	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°	1105.9	24.2
0°-40°	1825.8	39.9
0°-60°	3377.1	73.8
0°-90°	4575.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4575.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1417	1414	1404	1414	1415	135
15°	1359	1359	1356	1371	1374	383
25°	1252	1256	1267	1292	1300	577
35°	1099	1111	1145	1188	1203	687
45°	912	941	1009	1080	1109	703
55°	703	764	869	963	1002	629
65°	484	588	703	772	790	480
75°	270	403	448	441	431	286
85°	77	120	81	74	72	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1418.6	1418.6	1418.6	1418.6	1418.6
2.5°	1421.9	1418.6	1408.8	1418.6	1418.6
5°	1417.0	1413.7	1403.8	1413.7	1415.4
7.5°	1407.1	1405.5	1397.2	1407.1	1408.8
10°	1395.6	1394.0	1385.7	1397.2	1398.9
12.5°	1379.1	1377.5	1374.2	1385.7	1385.7
15°	1359.4	1359.4	1356.1	1370.9	1374.2
17.5°	1336.4	1338.0	1338.0	1354.5	1357.7
20°	1311.7	1313.3	1316.6	1334.7	1339.6
22.5°	1285.3	1285.3	1293.6	1315.0	1321.5
25°	1252.4	1255.7	1267.2	1291.9	1300.1
27.5°	1216.2	1222.8	1239.3	1267.2	1277.1
30°	1180.0	1188.2	1209.6	1240.9	1252.4
32.5°	1140.5	1150.4	1180.0	1214.6	1226.1
35°	1099.4	1110.9	1145.4	1188.2	1203.0
37.5°	1054.9	1069.7	1112.5	1161.9	1181.7
40°	1008.8	1028.6	1078.0	1133.9	1157.0
42.5°	959.5	985.8	1043.4	1107.6	1135.6
45°	911.7	941.4	1008.8	1079.6	1109.2
47.5°	860.7	898.6	974.3	1051.6	1084.6
50°	808.1	850.9	941.4	1025.3	1061.5
52.5°	757.0	808.1	905.2	995.7	1033.5
55°	702.7	763.6	869.0	962.8	1002.3
57.5°	650.1	720.8	832.8	926.6	962.8
60°	594.1	674.8	791.6	883.8	916.7
62.5°	539.8	633.6	748.8	831.1	857.4
65°	483.9	587.5	702.7	771.9	790.0
67.5°	431.2	544.7	648.4	702.7	714.3
70°	376.9	500.3	589.2	628.7	632.0
72.5°	322.6	450.9	525.0	534.9	534.9
75°	269.9	403.2	447.6	441.1	431.2
77.5°	220.5	344.0	362.1	334.1	312.7
80°	169.5	283.1	260.0	210.7	190.9
82.5°	121.8	210.7	153.1	120.1	113.6
85°	77.4	120.1	80.6	74.1	72.4
87.5°	36.2	44.4	36.2	39.5	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)