

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: P189671

Luminaire Tested: **BRG-WG-3L35-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189671
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-3L35-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) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

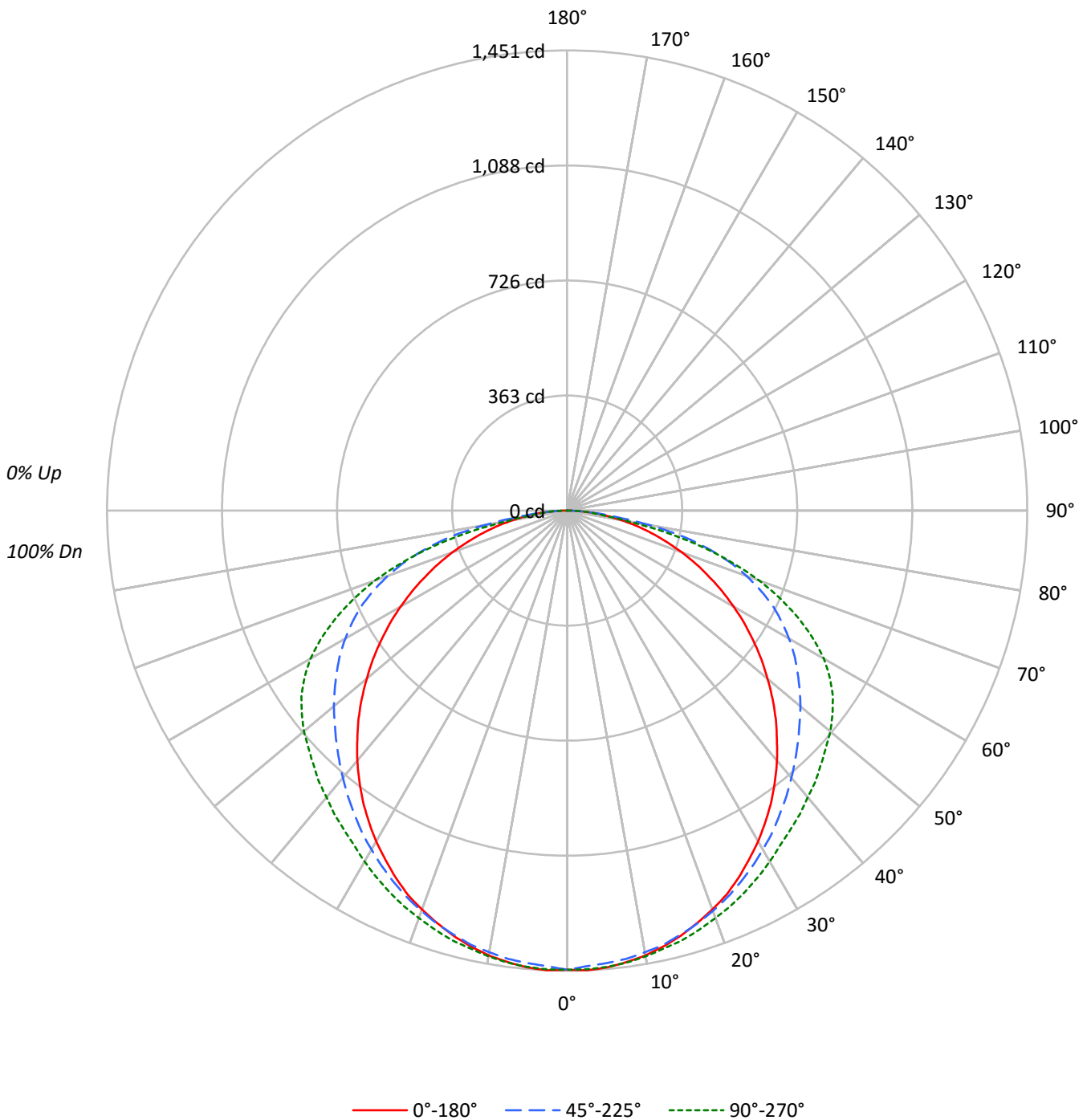
Lumens per Lamp: N/A
Luminaire Lumens: 4669.2 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2217	2217	2217
5°	2223	2202	2221
10°	2215	2199	2220
15°	2200	2194	2224
20°	2182	2190	2228
25°	2160	2185	2242
30°	2130	2183	2260
35°	2098	2185	2295
40°	2058	2199	2360
45°	2015	2230	2452
50°	1965	2289	2581
55°	1915	2368	2731
60°	1857	2474	2865
65°	1789	2599	2921
70°	1722	2692	2888
75°	1630	2703	2604
80°	1526	2340	1718
85°	1387	1446	1299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	2.9
10°-20°	392.8	8.4
20°-30°	598.8	12.8
30°-40°	734.6	15.7
40°-50°	796.6	17.1
50°-60°	786.4	16.8
60°-70°	678.7	14.5
70°-80°	435.1	9.3
80°-90°	109.4	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°	1128.5	24.2
0°-40°	1863.1	39.9
0°-60°	3446.0	73.8
0°-90°	4669.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4669.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1446	1443	1432	1443	1444	137
15°	1387	1387	1384	1399	1402	391
25°	1278	1281	1293	1318	1327	589
35°	1122	1134	1169	1212	1228	701
45°	930	961	1030	1102	1132	717
55°	717	779	887	982	1023	641
65°	494	600	717	788	806	490
75°	275	411	457	450	440	292
85°	79	123	82	76	74	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.6	1447.6	1447.6	1447.6	1447.6
2.5°	1451.0	1447.6	1437.5	1447.6	1447.6
5°	1445.9	1442.6	1432.5	1442.6	1444.3
7.5°	1435.9	1434.2	1425.8	1435.9	1437.5
10°	1424.1	1422.4	1414.0	1425.8	1427.5
12.5°	1407.3	1405.6	1402.3	1414.0	1414.0
15°	1387.2	1387.2	1383.8	1398.9	1402.3
17.5°	1363.7	1365.3	1365.3	1382.1	1385.5
20°	1338.5	1340.1	1343.5	1362.0	1367.0
22.5°	1311.6	1311.6	1320.0	1341.8	1348.5
25°	1278.0	1281.4	1293.1	1318.3	1326.7
27.5°	1241.1	1247.8	1264.6	1293.1	1303.2
30°	1204.1	1212.5	1234.3	1266.2	1278.0
32.5°	1163.8	1173.9	1204.1	1239.4	1251.1
35°	1121.8	1133.6	1168.8	1212.5	1227.6
37.5°	1076.5	1091.6	1135.3	1185.6	1205.8
40°	1029.5	1049.6	1100.0	1157.1	1180.6
42.5°	979.1	1005.9	1064.7	1130.2	1158.8
45°	930.4	960.6	1029.5	1101.7	1131.9
47.5°	878.3	916.9	994.2	1073.1	1106.7
50°	824.6	868.2	960.6	1046.3	1083.2
52.5°	772.5	824.6	923.7	1016.0	1054.6
55°	717.1	779.2	886.7	982.4	1022.7
57.5°	663.4	735.6	849.8	945.5	982.4
60°	606.3	688.5	807.8	901.8	935.4
62.5°	550.8	646.6	764.1	848.1	875.0
65°	493.7	599.5	717.1	787.6	806.1
67.5°	440.0	555.9	661.7	717.1	728.8
70°	384.6	510.5	601.2	641.5	644.9
72.5°	329.2	460.1	535.7	545.8	545.8
75°	275.4	411.4	456.8	450.1	440.0
77.5°	225.0	351.0	369.5	340.9	319.1
80°	173.0	288.9	265.3	215.0	194.8
82.5°	124.3	215.0	156.2	122.6	115.9
85°	78.9	122.6	82.3	75.6	73.9
87.5°	36.9	45.3	36.9	40.3	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)