

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: P189686

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34875)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WD-3L35-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 3 (1040 mA)
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

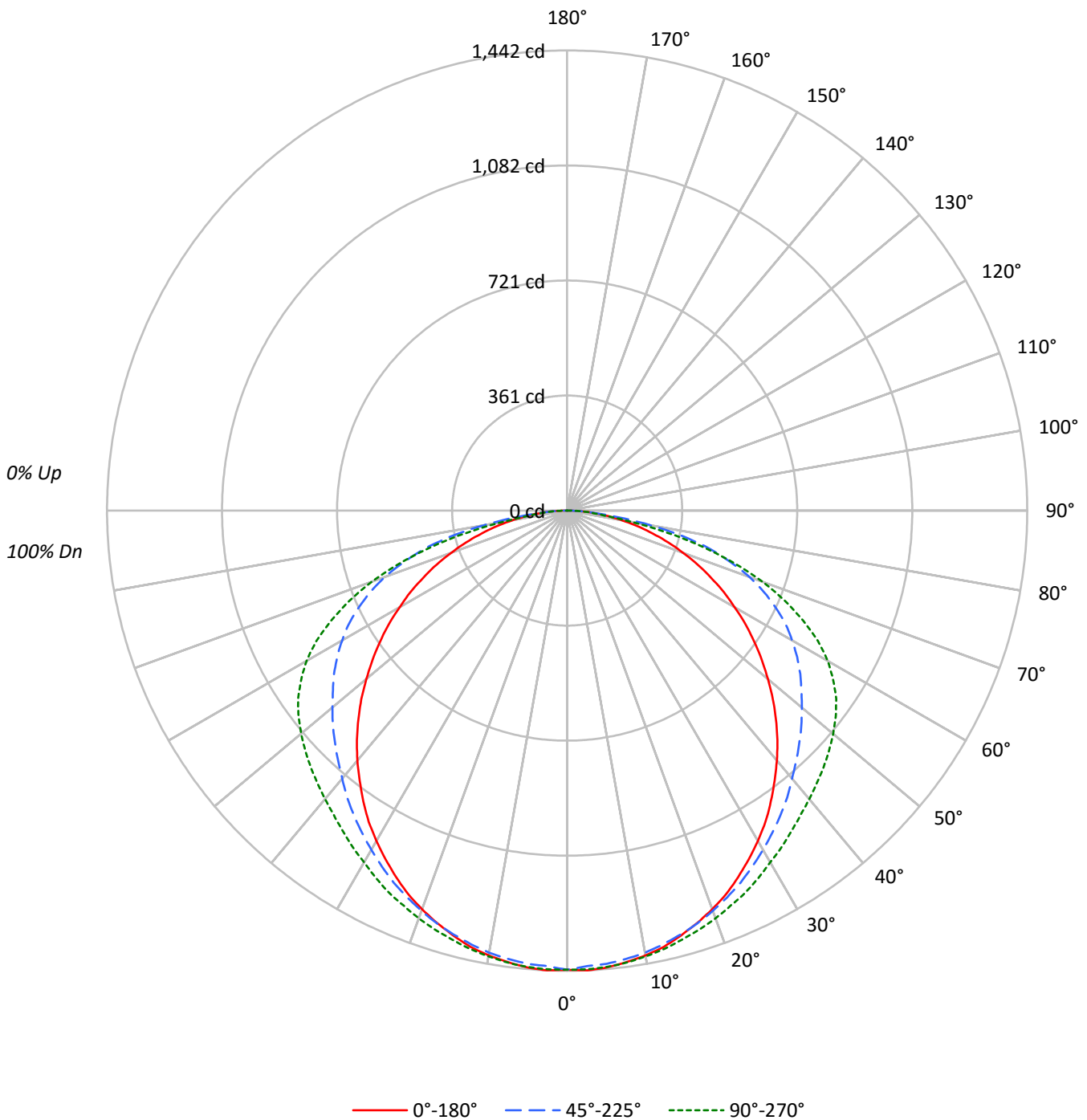
Lumens per Lamp: N/A
Luminaire Lumens: 4672.6 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.43
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P189686
CATALOG NUMBER: BRG-WD-3L35-LD2-UNV-24-STD

Luminous Intensity Polar Plot





TEST NUMBER: P189686

CATALOG NUMBER: BRG-WD-3L35-LD2-UNV-24-STD

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	92	89	92	89	87	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	79	75	70	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	59	69	63	58	67	62	57	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2204	2204	2204
5°	2210	2192	2207
10°	2201	2188	2206
15°	2186	2180	2207
20°	2167	2175	2217
25°	2142	2173	2233
30°	2114	2171	2251
35°	2081	2179	2292
40°	2044	2192	2360
45°	2004	2229	2462
50°	1956	2288	2592
55°	1910	2381	2748
60°	1857	2494	2890
65°	1801	2616	2957
70°	1729	2722	2917
75°	1639	2742	2613
80°	1525	2354	1777
85°	1416	1474	1299



TEST NUMBER: P189686

CATALOG NUMBER: BRG-WD-3L35-LD2-UNV-24-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	2.9
10°-20°	390.3	8.4
20°-30°	595.2	12.7
30°-40°	731.6	15.7
40°-50°	796.3	17.0
50°-60°	789.1	16.9
60°-70°	684.6	14.7
70°-80°	438.7	9.4
80°-90°	110.5	2.4
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°	1121.6	24.0
0°-40°	1853.2	39.7
0°-60°	3438.7	73.6
0°-90°	4672.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4672.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1439	1439	1439	1439	1439	
5°	1437	1434	1425	1434	1436	136
15°	1378	1378	1375	1390	1392	389
25°	1268	1273	1286	1311	1321	584
35°	1113	1126	1165	1209	1226	696
45°	925	959	1029	1105	1137	714
55°	715	781	892	991	1029	640
65°	497	603	722	798	816	493
75°	277	411	463	455	442	294
85°	81	124	84	74	74	90
90°	0	0	0	0	0	



TEST NUMBER: P189686

CATALOG NUMBER: BRG-WD-3L35-LD2-UNV-24-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.8	1438.8	1438.8	1438.8	1438.8
2.5°	1442.2	1438.8	1428.8	1438.8	1438.8
5°	1437.1	1433.8	1425.4	1433.8	1435.5
7.5°	1427.1	1425.4	1417.0	1427.1	1428.8
10°	1415.3	1412.0	1406.9	1417.0	1418.7
12.5°	1400.2	1396.9	1391.8	1405.2	1406.9
15°	1378.4	1378.4	1375.0	1390.1	1391.8
17.5°	1354.9	1356.6	1356.6	1373.3	1376.7
20°	1329.7	1331.4	1334.7	1354.9	1359.9
22.5°	1301.2	1302.8	1311.2	1334.7	1339.8
25°	1267.6	1272.6	1286.0	1311.2	1321.3
27.5°	1232.3	1239.0	1257.5	1286.0	1297.8
30°	1195.4	1203.8	1227.3	1262.5	1272.6
32.5°	1156.8	1166.8	1197.1	1235.7	1250.8
35°	1113.1	1126.5	1165.2	1208.8	1225.6
37.5°	1067.8	1086.3	1133.3	1183.6	1202.1
40°	1022.5	1044.3	1096.3	1156.8	1180.3
42.5°	975.4	1002.3	1062.7	1129.9	1158.4
45°	925.1	958.7	1029.2	1104.7	1136.6
47.5°	874.7	913.3	995.6	1077.9	1113.1
50°	821.0	869.7	960.3	1049.3	1087.9
52.5°	768.9	822.7	925.1	1020.8	1061.1
55°	715.2	780.7	891.5	990.6	1029.2
57.5°	663.2	735.4	854.6	951.9	988.9
60°	606.1	691.7	814.3	908.3	943.5
62.5°	554.0	648.1	772.3	857.9	886.5
65°	497.0	602.7	721.9	797.5	816.0
67.5°	443.2	559.1	668.2	723.6	738.7
70°	386.1	515.4	607.8	648.1	651.4
72.5°	332.4	465.1	537.3	552.4	550.7
75°	277.0	411.3	463.4	455.0	441.6
77.5°	226.7	354.2	372.7	340.8	325.7
80°	172.9	290.5	266.9	216.6	201.5
82.5°	125.9	216.6	161.2	124.2	115.8
85°	80.6	124.2	83.9	73.9	73.9
87.5°	38.6	47.0	38.6	38.6	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)