

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: P189660

Luminaire Tested: **BRG-WS-2L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34869)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WS-2L40-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 2 (820 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

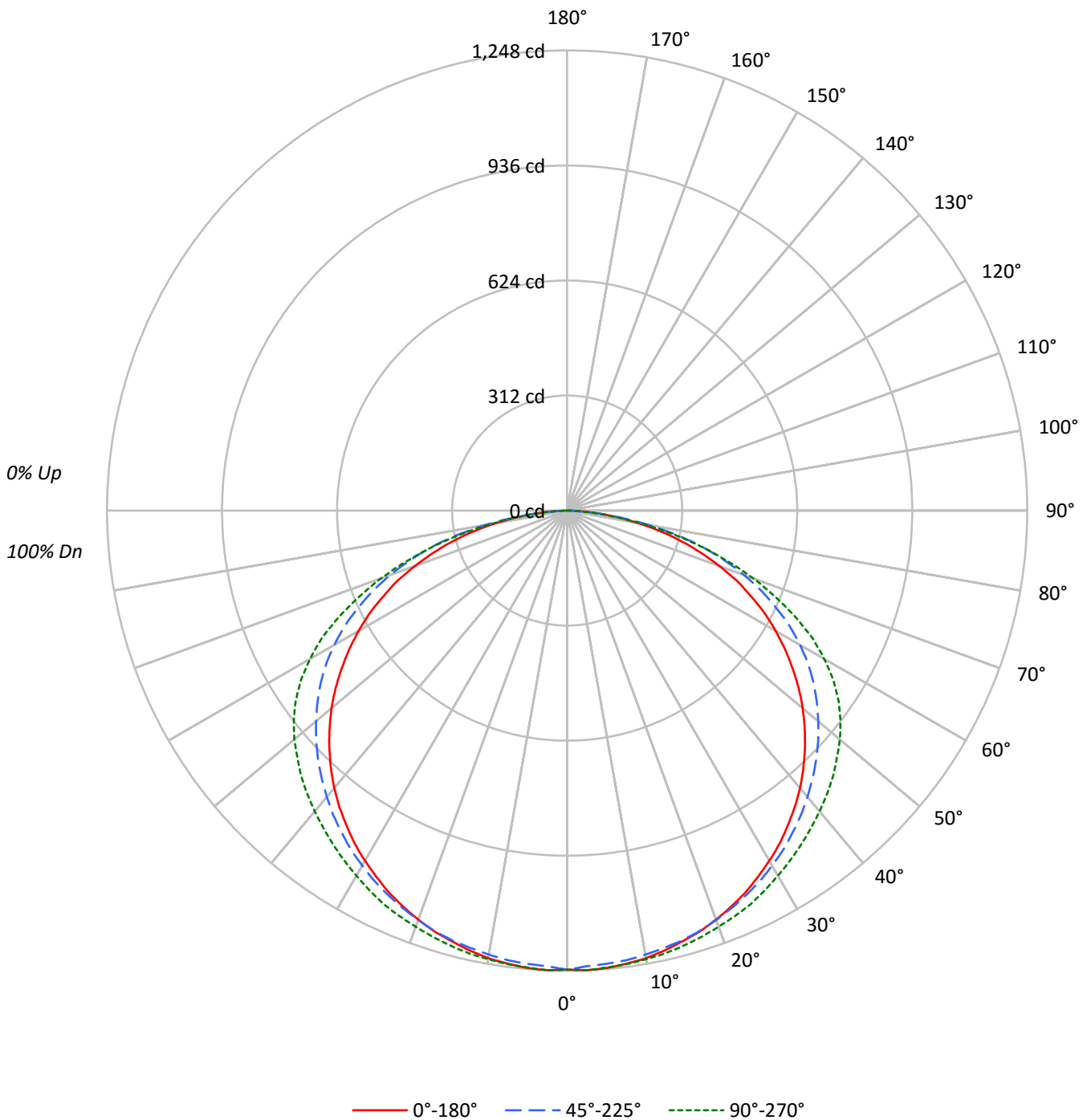
Lumens per Lamp: N/A
Luminaire Lumens: 4234.9 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.37 / 1.48
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.5
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	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	37	51	43	37	49	42	37	48	41	36	34
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1907	1907	1907
5°	1914	1897	1912
10°	1917	1902	1921
15°	1917	1913	1937
20°	1924	1926	1958
25°	1932	1944	1990
30°	1939	1966	2022
35°	1950	1994	2068
40°	1964	2028	2129
45°	1976	2069	2209
50°	1987	2118	2302
55°	1992	2180	2400
60°	1999	2235	2467
65°	1992	2271	2475
70°	1963	2283	2406
75°	1895	2245	2220
80°	1733	1963	1818
85°	1376	1304	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	2.8
10°-20°	342.7	8.1
20°-30°	533.5	12.6
30°-40°	670.9	15.8
40°-50°	741.6	17.5
50°-60°	731.4	17.3
60°-70°	615.2	14.5
70°-80°	384.3	9.1
80°-90°	97.1	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°	994.3	23.5
0°-40°	1665.3	39.3
0°-60°	3138.3	74.1
0°-90°	4234.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4234.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1245	1242	1234	1244	1244	118
15°	1209	1209	1206	1219	1222	342
25°	1143	1143	1150	1171	1178	527
35°	1043	1048	1066	1095	1106	653
45°	912	923	955	999	1020	704
55°	746	767	816	871	899	667
65°	550	584	627	669	683	544
75°	320	368	379	374	375	337
85°	78	92	74	69	67	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1244.9	1244.9	1244.9	1244.9	1244.9
2.5°	1247.7	1246.3	1236.7	1246.3	1247.7
5°	1244.9	1242.2	1233.9	1243.6	1243.6
7.5°	1239.4	1236.7	1229.8	1239.4	1240.8
10°	1232.6	1229.8	1222.9	1235.3	1235.3
12.5°	1221.6	1220.2	1214.7	1227.1	1229.8
15°	1209.2	1209.2	1206.5	1218.8	1221.6
17.5°	1196.8	1195.5	1195.5	1210.6	1212.0
20°	1180.3	1180.3	1181.7	1198.2	1201.0
22.5°	1162.5	1162.5	1166.6	1185.8	1190.0
25°	1143.2	1143.2	1150.1	1170.7	1177.6
27.5°	1119.9	1122.6	1132.3	1154.2	1161.1
30°	1096.5	1099.3	1111.6	1135.0	1143.2
32.5°	1071.8	1075.9	1091.0	1115.8	1125.4
35°	1042.9	1048.4	1066.3	1095.2	1106.1
37.5°	1014.1	1018.2	1041.6	1073.2	1085.5
40°	982.5	988.0	1014.1	1049.8	1064.9
42.5°	948.1	957.7	985.2	1025.1	1042.9
45°	912.4	923.4	955.0	999.0	1019.6
47.5°	873.9	887.7	923.4	971.5	992.1
50°	834.1	847.8	889.0	941.3	966.0
52.5°	791.5	809.3	853.3	908.3	934.4
55°	746.1	766.7	816.2	871.2	898.7
57.5°	700.8	726.9	775.0	830.0	856.1
60°	652.7	678.8	729.6	781.9	805.2
62.5°	604.6	630.7	681.6	728.3	750.3
65°	549.6	584.0	626.6	669.2	682.9
67.5°	498.8	533.1	571.6	601.9	611.5
70°	438.3	479.6	509.8	530.4	537.3
72.5°	380.6	424.6	446.6	450.7	456.2
75°	320.2	368.3	379.3	373.8	375.1
77.5°	259.7	306.4	303.7	291.3	292.7
80°	196.5	239.1	222.6	211.6	206.1
82.5°	134.7	170.4	145.7	131.9	130.5
85°	78.3	92.1	74.2	68.7	67.3
87.5°	31.6	35.7	24.7	17.9	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)