

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: P189537

Luminaire Tested: **BRG-WG-6L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34863)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WG-6L40-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 6 (975 mA)
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

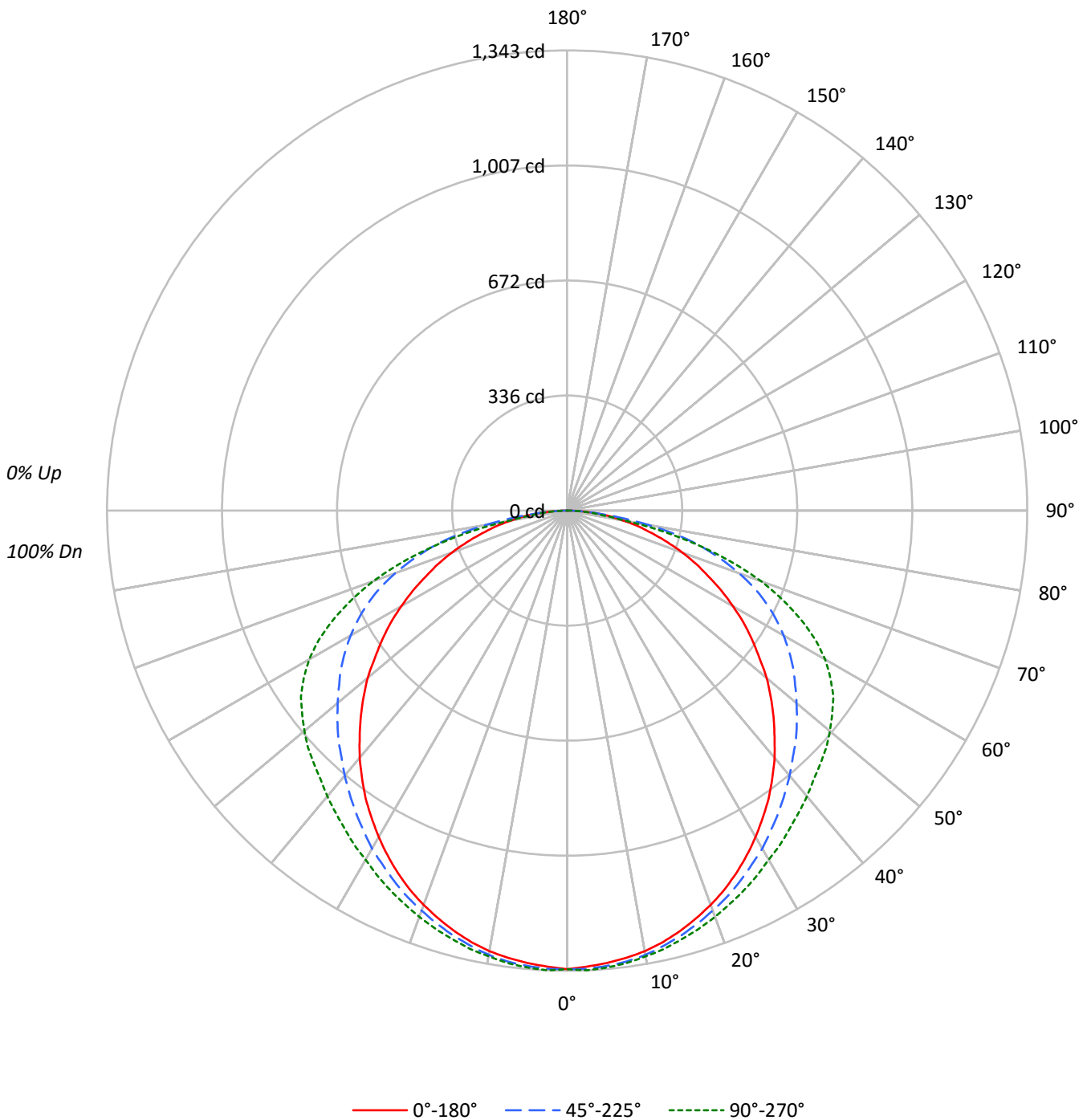
Lumens per Lamp: N/A
Luminaire Lumens: 4267.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 45.7
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	89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
4	81	68	59	52	78	67	58	51	64	56	50	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	59	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4287	4287	4287
5°	4261	4289	4303
10°	4246	4281	4296
15°	4213	4256	4293
20°	4173	4233	4301
25°	4126	4219	4319
30°	4067	4213	4350
35°	4008	4205	4428
40°	3938	4222	4552
45°	3860	4276	4733
50°	3787	4355	4988
55°	3682	4501	5296
60°	3578	4672	5570
65°	3453	4864	5711
70°	3344	5005	5641
75°	3171	5042	5015
80°	3071	4445	3274
85°	2818	3138	2414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	3.0
10°-20°	362.3	8.5
20°-30°	550.8	12.9
30°-40°	674.6	15.8
40°-50°	730.4	17.1
50°-60°	718.7	16.8
60°-70°	616.6	14.5
70°-80°	388.9	9.1
80°-90°	98.1	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°	1039.7	24.4
0°-40°	1714.3	40.2
0°-60°	3163.4	74.1
0°-90°	4267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1325	1330	1334	1336	1338	126
15°	1271	1275	1284	1292	1295	358
25°	1168	1174	1194	1214	1222	538
35°	1025	1038	1076	1115	1133	641
45°	852	878	944	1012	1045	657
55°	659	708	806	900	949	590
65°	456	534	642	721	754	453
75°	256	346	408	410	405	274
85°	77	105	85	68	66	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.5	1338.5	1338.5	1338.5	1338.5
2.5°	1332.0	1334.2	1338.5	1342.9	1342.9
5°	1325.4	1329.8	1334.2	1336.4	1338.5
7.5°	1316.6	1321.0	1327.6	1329.8	1332.0
10°	1305.7	1307.9	1316.6	1321.0	1321.0
12.5°	1290.3	1292.5	1301.3	1307.9	1310.1
15°	1270.6	1275.0	1283.8	1292.5	1294.7
17.5°	1248.7	1253.1	1264.1	1275.0	1279.4
20°	1224.6	1229.0	1242.2	1255.3	1261.9
22.5°	1198.3	1204.9	1220.2	1235.6	1242.2
25°	1167.7	1174.2	1194.0	1213.7	1222.4
27.5°	1134.8	1145.8	1165.5	1189.6	1200.5
30°	1099.8	1110.7	1139.2	1165.5	1176.4
32.5°	1062.5	1075.7	1106.3	1139.2	1156.7
35°	1025.3	1038.4	1075.7	1115.1	1132.6
37.5°	983.6	1001.2	1042.8	1088.8	1110.7
40°	942.0	961.7	1009.9	1062.5	1088.8
42.5°	896.0	917.9	974.9	1036.2	1064.7
45°	852.2	878.5	944.2	1012.1	1045.0
47.5°	806.2	836.9	909.2	985.8	1025.3
50°	760.2	793.0	874.1	959.5	1001.2
52.5°	707.6	751.4	839.1	931.1	974.9
55°	659.4	707.6	806.2	900.4	948.6
57.5°	611.2	666.0	769.0	865.3	911.3
60°	558.6	622.2	729.5	823.7	869.7
62.5°	508.3	580.5	687.9	777.7	817.1
65°	455.7	534.5	641.9	720.8	753.6
67.5°	407.5	490.7	591.5	657.2	681.3
70°	357.1	446.9	534.5	582.7	602.5
72.5°	306.7	396.5	471.0	499.5	508.3
75°	256.3	346.1	407.5	409.7	405.3
77.5°	212.5	291.4	328.6	308.9	297.9
80°	166.5	234.4	241.0	201.5	177.5
82.5°	122.7	166.5	151.2	118.3	103.0
85°	76.7	105.2	85.4	67.9	65.7
87.5°	35.1	39.4	32.9	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)