

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: P189530

Luminaire Tested: **BRG-WG-5L35-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189530
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-5L35-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 5 (845 mA)
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

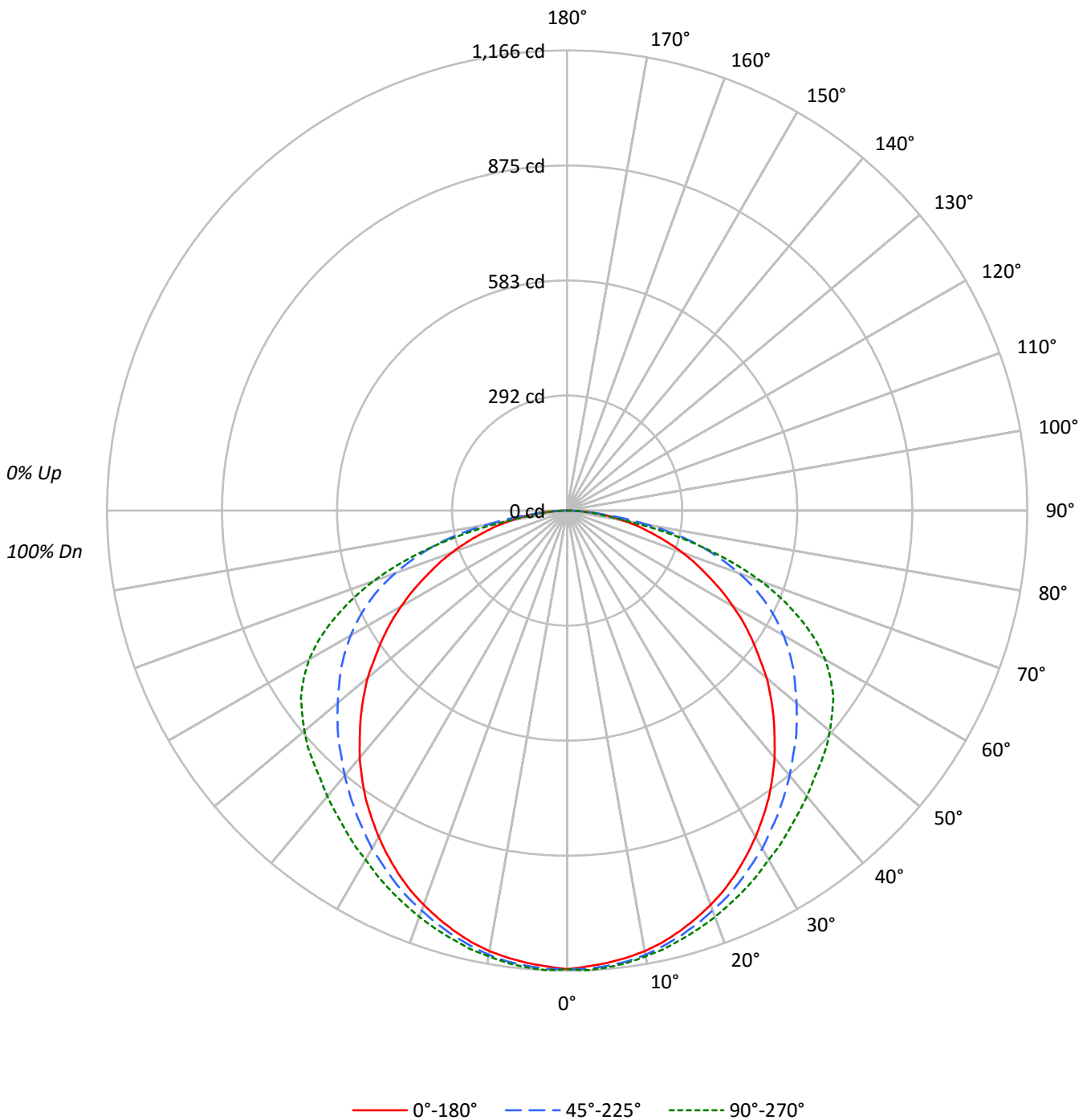
Lumens per Lamp: N/A
Luminaire Lumens: 3704.3 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.1
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°	3721	3721	3721
5°	3699	3723	3736
10°	3686	3717	3729
15°	3657	3695	3727
20°	3623	3675	3733
25°	3582	3663	3750
30°	3530	3657	3777
35°	3480	3651	3844
40°	3419	3665	3951
45°	3351	3712	4109
50°	3288	3780	4330
55°	3196	3908	4598
60°	3106	4056	4836
65°	2998	4222	4957
70°	2903	4345	4897
75°	2753	4377	4353
80°	2665	3858	2840
85°	2447	2726	2098



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.0
10°-20°	314.5	8.5
20°-30°	478.1	12.9
30°-40°	585.6	15.8
40°-50°	634.1	17.1
50°-60°	623.9	16.8
60°-70°	535.3	14.5
70°-80°	337.6	9.1
80°-90°	85.1	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°	902.6	24.4
0°-40°	1488.2	40.2
0°-60°	2746.2	74.1
0°-90°	3704.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3704.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1151	1154	1158	1160	1162	109
15°	1103	1107	1114	1122	1124	311
25°	1014	1019	1036	1054	1061	467
35°	890	902	934	968	983	556
45°	740	763	820	879	907	571
55°	572	614	700	782	824	512
65°	396	464	557	626	654	393
75°	222	300	354	356	352	238
85°	67	91	74	59	57	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.0	1162.0	1162.0	1162.0	1162.0
2.5°	1156.3	1158.2	1162.0	1165.8	1165.8
5°	1150.6	1154.4	1158.2	1160.1	1162.0
7.5°	1143.0	1146.8	1152.5	1154.4	1156.3
10°	1133.5	1135.4	1143.0	1146.8	1146.8
12.5°	1120.2	1122.1	1129.7	1135.4	1137.3
15°	1103.1	1106.9	1114.5	1122.1	1124.0
17.5°	1084.0	1087.8	1097.4	1106.9	1110.7
20°	1063.1	1066.9	1078.3	1089.7	1095.5
22.5°	1040.3	1046.0	1059.3	1072.6	1078.3
25°	1013.7	1019.4	1036.5	1053.6	1061.2
27.5°	985.1	994.7	1011.8	1032.7	1042.2
30°	954.7	964.2	989.0	1011.8	1021.3
32.5°	922.4	933.8	960.4	989.0	1004.2
35°	890.1	901.5	933.8	968.0	983.2
37.5°	853.9	869.1	905.3	945.2	964.2
40°	817.8	834.9	876.7	922.4	945.2
42.5°	777.8	796.9	846.3	899.6	924.3
45°	739.8	762.6	819.7	878.6	907.2
47.5°	699.9	726.5	789.3	855.8	890.1
50°	659.9	688.5	758.8	833.0	869.1
52.5°	614.3	652.3	728.4	808.3	846.3
55°	572.5	614.3	699.9	781.7	823.5
57.5°	530.6	578.2	667.5	751.2	791.2
60°	485.0	540.1	633.3	715.1	755.0
62.5°	441.2	504.0	597.2	675.1	709.4
65°	395.6	464.0	557.2	625.7	654.2
67.5°	353.7	426.0	513.5	570.5	591.5
70°	310.0	388.0	464.0	505.9	523.0
72.5°	266.3	344.2	408.9	433.6	441.2
75°	222.5	300.5	353.7	355.6	351.8
77.5°	184.5	252.9	285.3	268.2	258.6
80°	144.5	203.5	209.2	175.0	154.0
82.5°	106.5	144.5	131.2	102.7	89.4
85°	66.6	91.3	74.2	59.0	57.1
87.5°	30.4	34.2	28.5	28.5	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)