

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: P189657

Luminaire Tested: **BRG-WS-4L35-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189657
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-4L35-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 4 (1260 mA)
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

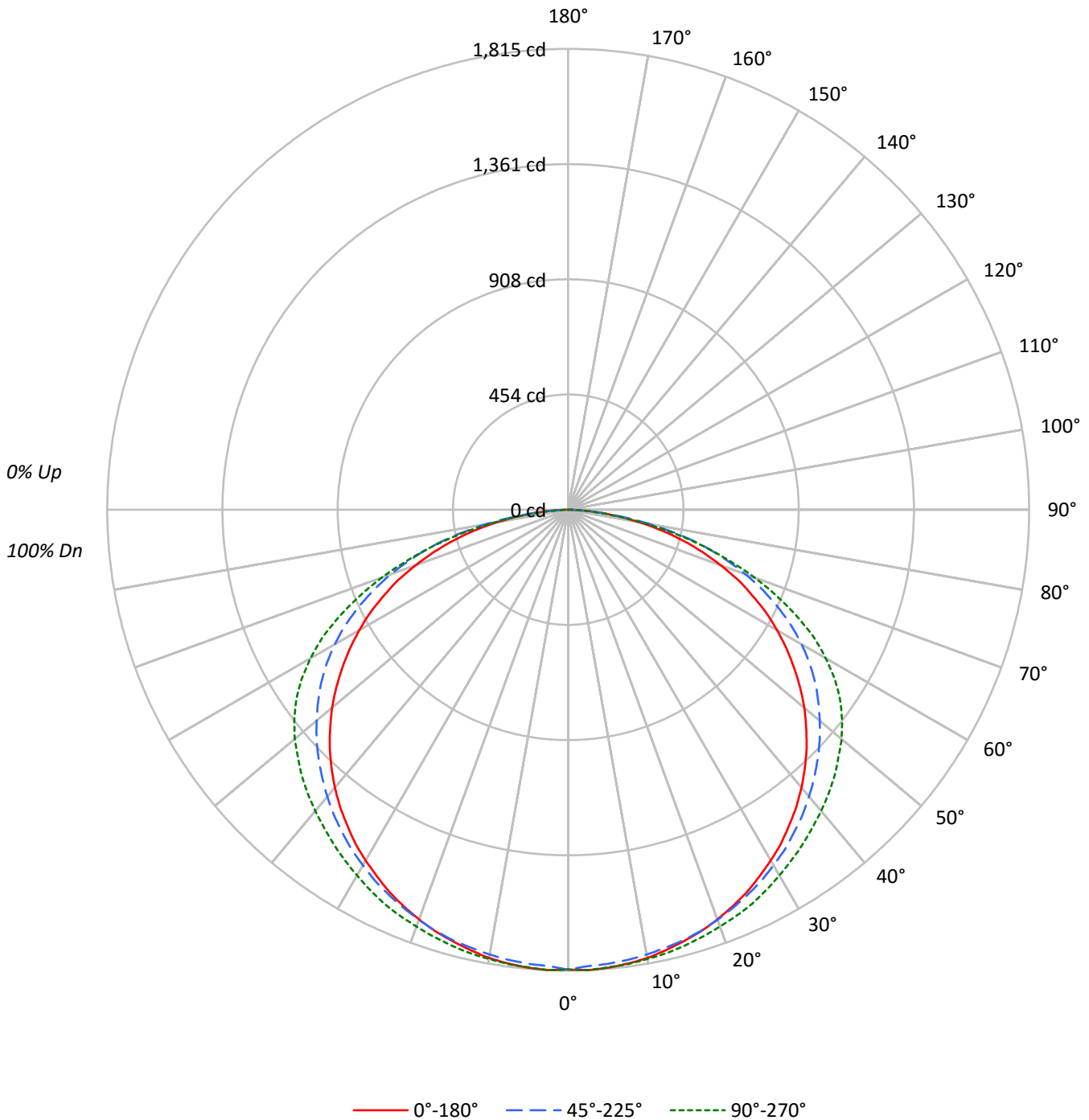
Lumens per Lamp: N/A
Luminaire Lumens: 6160.3 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.37 / 1.48
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	2774	2774	2774
5°	2784	2760	2781
10°	2789	2767	2795
15°	2789	2783	2818
20°	2799	2802	2847
25°	2811	2827	2895
30°	2821	2860	2941
35°	2837	2900	3009
40°	2858	2950	3097
45°	2875	3009	3213
50°	2891	3082	3348
55°	2898	3170	3491
60°	2909	3251	3588
65°	2897	3303	3600
70°	2855	3321	3500
75°	2756	3265	3229
80°	2521	2856	2644
85°	2002	1896	1720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	2.8
10°-20°	498.6	8.1
20°-30°	776.0	12.6
30°-40°	976.0	15.8
40°-50°	1078.8	17.5
50°-60°	1064.0	17.3
60°-70°	894.9	14.5
70°-80°	558.9	9.1
80°-90°	141.2	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°	1446.4	23.5
0°-40°	2422.4	39.3
0°-60°	4565.3	74.1
0°-90°	6160.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6160.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1811	1811	1811	1811	1811	
5°	1811	1807	1795	1809	1809	172
15°	1759	1759	1755	1773	1777	497
25°	1663	1663	1673	1703	1713	767
35°	1517	1525	1551	1593	1609	950
45°	1327	1343	1389	1453	1483	1024
55°	1085	1115	1187	1267	1307	971
65°	800	850	912	973	993	792
75°	466	536	552	544	546	490
85°	114	134	108	100	98	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1811.0	1811.0	1811.0	1811.0	1811.0
2.5°	1815.0	1813.0	1799.0	1813.0	1815.0
5°	1811.0	1807.0	1795.0	1809.0	1809.0
7.5°	1803.0	1799.0	1789.0	1803.0	1805.0
10°	1793.0	1789.0	1779.0	1797.0	1797.0
12.5°	1777.0	1775.0	1767.0	1785.0	1789.0
15°	1759.0	1759.0	1755.0	1773.0	1777.0
17.5°	1741.0	1739.0	1739.0	1761.0	1763.0
20°	1717.0	1717.0	1719.0	1743.0	1747.0
22.5°	1691.0	1691.0	1697.0	1725.0	1731.0
25°	1663.1	1663.1	1673.0	1703.0	1713.0
27.5°	1629.1	1633.1	1647.1	1679.0	1689.0
30°	1595.1	1599.1	1617.1	1651.1	1663.1
32.5°	1559.1	1565.1	1587.1	1623.1	1637.1
35°	1517.1	1525.1	1551.1	1593.1	1609.1
37.5°	1475.2	1481.2	1515.1	1561.1	1579.1
40°	1429.2	1437.2	1475.2	1527.1	1549.1
42.5°	1379.2	1393.2	1433.2	1491.2	1517.1
45°	1327.2	1343.2	1389.2	1453.2	1483.2
47.5°	1271.3	1291.3	1343.2	1413.2	1443.2
50°	1213.3	1233.3	1293.3	1369.2	1405.2
52.5°	1151.3	1177.3	1241.3	1321.2	1359.2
55°	1085.4	1115.4	1187.3	1267.3	1307.3
57.5°	1019.4	1057.4	1127.4	1207.3	1245.3
60°	949.5	987.4	1061.4	1137.4	1171.3
62.5°	879.5	917.5	991.4	1059.4	1091.4
65°	799.5	849.5	911.5	973.4	993.4
67.5°	725.6	775.6	831.5	875.5	889.5
70°	637.6	697.6	741.6	771.6	781.6
72.5°	553.7	617.6	649.6	655.6	663.6
75°	465.7	535.7	551.7	543.7	545.7
77.5°	377.8	445.7	441.7	423.8	425.8
80°	285.8	347.8	323.8	307.8	299.8
82.5°	195.9	247.9	211.9	191.9	189.9
85°	113.9	133.9	107.9	99.9	97.9
87.5°	46.0	52.0	36.0	26.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)