

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: P189703

Luminaire Tested: **BRG-WN-5L35-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34876)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WN-5L35-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 5 (1440 mA)
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6685.5 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

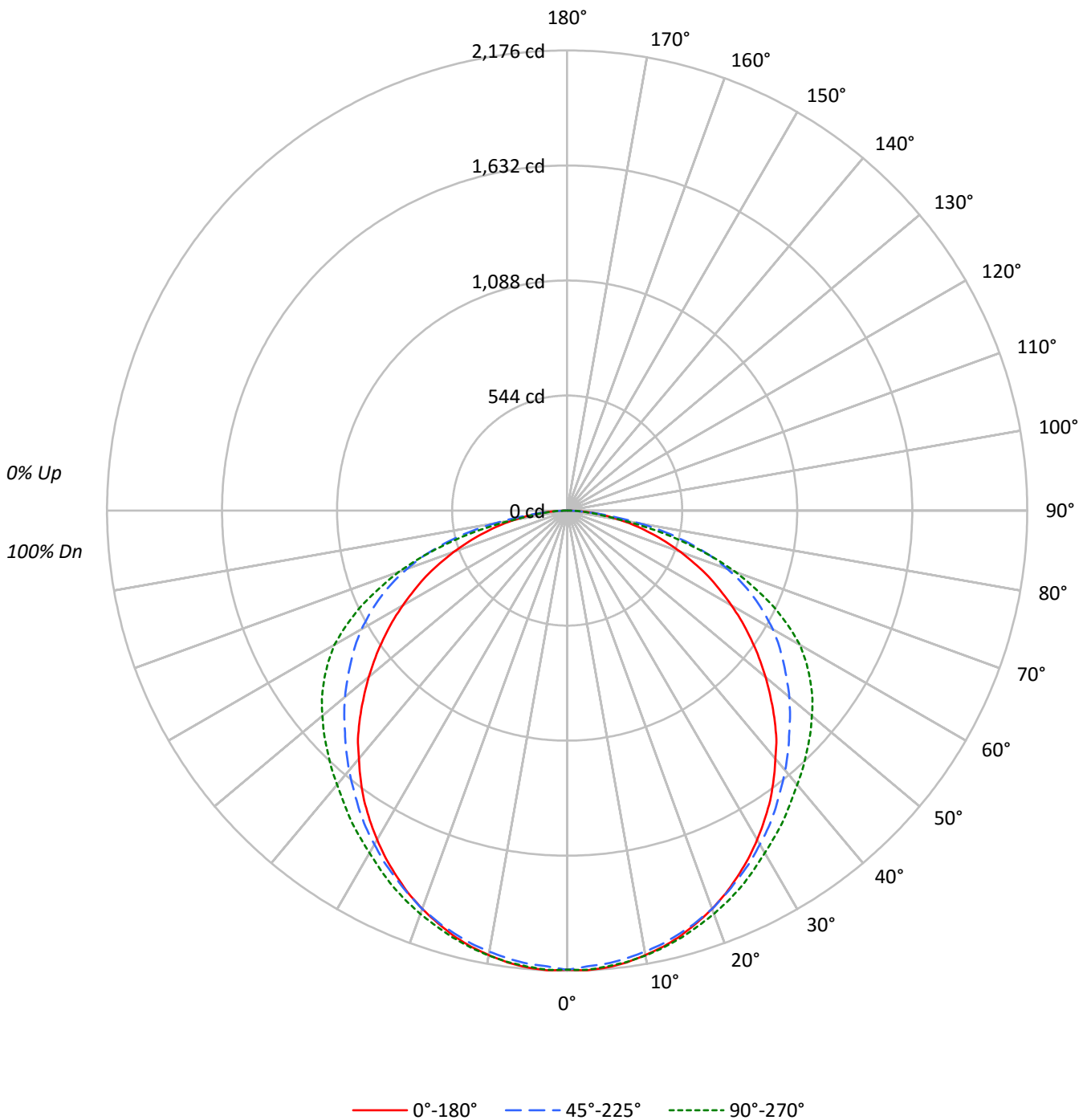
Input Watts (W): 70.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3326	3326	3326
5°	3335	3306	3328
10°	3319	3294	3323
15°	3299	3281	3314
20°	3266	3266	3308
25°	3225	3241	3308
30°	3178	3223	3306
35°	3130	3212	3338
40°	3063	3207	3384
45°	3001	3218	3475
50°	2919	3268	3601
55°	2837	3334	3750
60°	2749	3440	3895
65°	2671	3539	3909
70°	2551	3613	3789
75°	2407	3536	3357
80°	2255	3076	2337
85°	2042	1961	1675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.3	3.1
10°-20°	587.1	8.8
20°-30°	888.7	13.3
30°-40°	1079.0	16.1
40°-50°	1152.2	17.2
50°-60°	1111.8	16.6
60°-70°	933.4	14.0
70°-80°	581.4	8.7
80°-90°	146.6	2.2
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°	1681.1	25.1
0°-40°	2760.1	41.3
0°-60°	5024.1	75.1
0°-90°	6685.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6685.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2171	2171	2171	2171	2171	
5°	2169	2164	2150	2164	2164	206
15°	2081	2078	2069	2088	2090	587
25°	1909	1911	1918	1948	1958	879
35°	1674	1683	1718	1764	1785	1046
45°	1386	1416	1486	1569	1604	1068
55°	1062	1130	1248	1360	1404	950
65°	737	848	976	1053	1079	727
75°	407	556	598	584	567	431
85°	116	163	112	98	95	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2171.3	2171.3	2171.3	2171.3	2171.3
2.5°	2176.0	2171.3	2157.4	2171.3	2173.7
5°	2169.0	2164.4	2150.4	2164.4	2164.4
7.5°	2155.1	2150.4	2136.5	2152.7	2152.7
10°	2134.1	2131.8	2117.9	2136.5	2136.5
12.5°	2110.9	2108.6	2096.9	2115.5	2115.5
15°	2080.7	2078.3	2069.0	2087.6	2090.0
17.5°	2043.5	2043.5	2038.8	2057.4	2059.7
20°	2004.0	2004.0	2004.0	2027.2	2029.5
22.5°	1959.8	1957.5	1962.1	1987.7	1994.7
25°	1908.6	1911.0	1917.9	1948.2	1957.5
27.5°	1855.2	1859.8	1873.8	1906.3	1913.3
30°	1797.0	1804.0	1822.6	1859.8	1869.1
32.5°	1736.6	1745.9	1773.8	1811.0	1827.3
35°	1673.8	1683.1	1718.0	1764.5	1785.4
37.5°	1604.1	1618.0	1659.9	1718.0	1736.6
40°	1532.0	1552.9	1604.1	1666.9	1692.4
42.5°	1464.6	1485.5	1546.0	1618.0	1650.6
45°	1385.6	1415.8	1485.5	1569.2	1604.1
47.5°	1304.2	1346.0	1429.7	1518.1	1559.9
50°	1225.2	1271.6	1371.6	1469.3	1511.1
52.5°	1143.8	1204.2	1308.8	1415.8	1462.3
55°	1062.4	1129.8	1248.4	1360.0	1404.2
57.5°	981.1	1064.7	1188.0	1297.2	1341.4
60°	897.4	992.7	1122.9	1227.5	1271.6
62.5°	816.0	920.6	1050.8	1146.1	1178.7
65°	737.0	848.5	976.4	1053.1	1078.7
67.5°	650.9	778.8	895.0	953.2	962.5
70°	569.6	709.1	806.7	839.2	846.2
72.5°	485.9	637.0	709.1	713.7	709.1
75°	406.8	555.6	597.5	583.5	567.2
77.5°	330.1	471.9	481.2	437.1	420.8
80°	255.7	381.3	348.7	292.9	265.0
82.5°	181.3	281.3	216.2	172.0	160.4
85°	116.2	162.7	111.6	97.6	95.3
87.5°	53.5	60.4	46.5	41.8	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)