

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: P220201

Luminaire Tested: **R3-WL-5L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35861)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-5L35-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6848.1 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

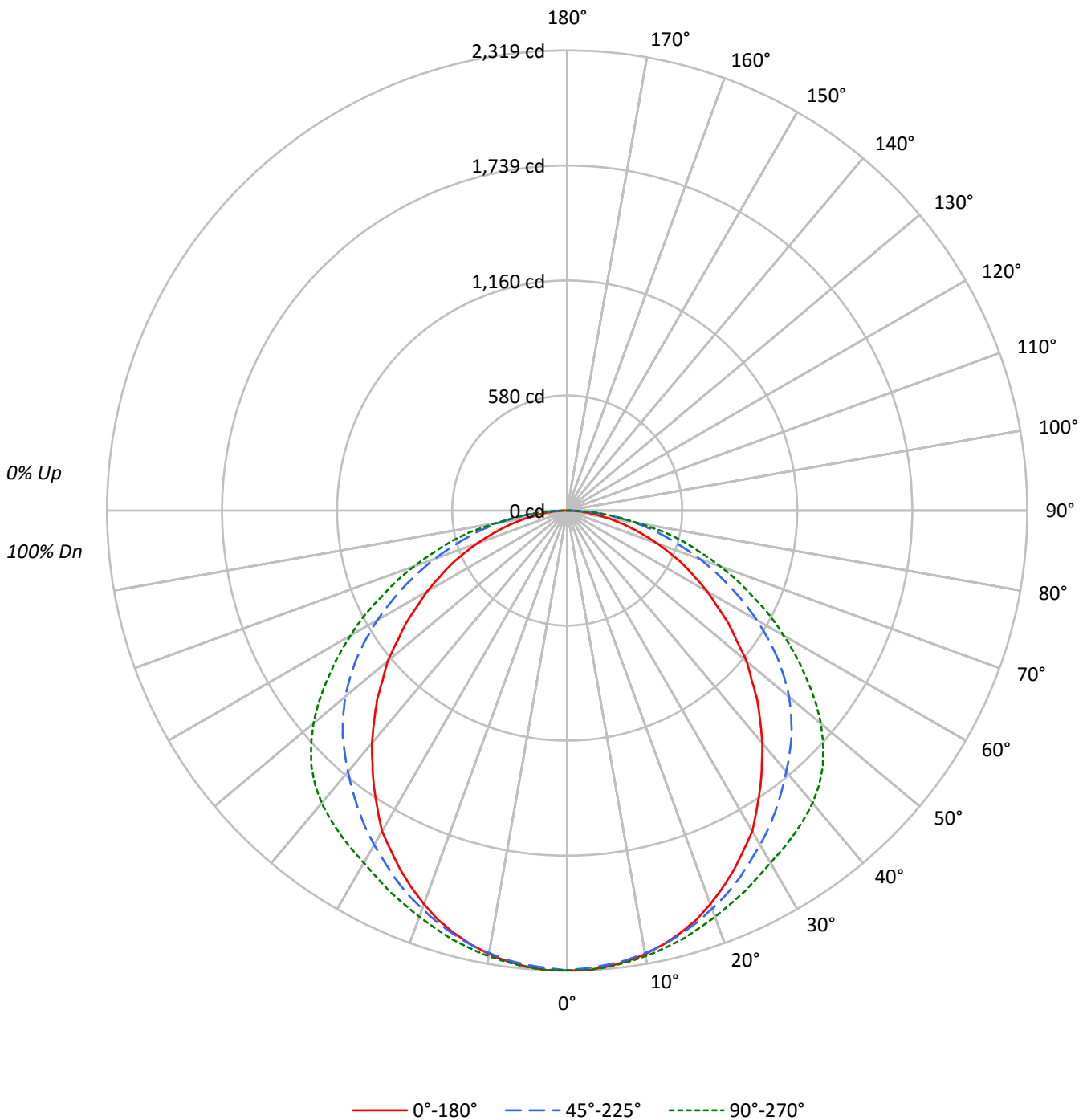
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3117	3117	3117
5°	3117	3105	3120
10°	3100	3094	3116
15°	3069	3079	3116
20°	3022	3057	3119
25°	2958	3039	3143
30°	2898	3022	3184
35°	2789	3016	3273
40°	2687	3018	3380
45°	2579	3045	3468
50°	2472	3056	3492
55°	2329	3036	3451
60°	2190	2971	3391
65°	2057	2880	3305
70°	1891	2791	3228
75°	1709	2699	3158
80°	1493	2652	2828
85°	1295	2379	2624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.0	3.2
10°-20°	625.5	9.1
20°-30°	946.1	13.8
30°-40°	1153.9	16.8
40°-50°	1228.0	17.9
50°-60°	1125.7	16.4
60°-70°	865.3	12.6
70°-80°	524.2	7.7
80°-90°	160.4	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°	1790.6	26.1
0°-40°	2944.5	43.0
0°-60°	5298.2	77.4
0°-90°	6848.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6848.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2317	2317	2317	2317	2317	
5°	2308	2305	2299	2310	2310	219
15°	2203	2206	2210	2230	2237	621
25°	1992	2008	2047	2097	2117	918
35°	1698	1739	1836	1950	1992	1062
45°	1356	1419	1600	1770	1822	1044
55°	993	1079	1294	1435	1471	886
65°	646	728	904	1013	1038	638
75°	329	401	519	596	608	350
85°	84	125	154	172	170	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2316.7	2316.7	2316.7	2316.7	2316.7
2.5°	2319.0	2314.4	2307.6	2316.7	2316.7
5°	2307.6	2305.4	2298.6	2309.9	2309.9
7.5°	2291.8	2289.5	2285.0	2298.6	2296.3
10°	2269.1	2266.8	2264.5	2280.4	2280.4
12.5°	2239.6	2239.6	2241.9	2257.7	2260.0
15°	2203.3	2205.6	2210.1	2230.5	2237.3
17.5°	2162.5	2164.8	2176.1	2203.3	2207.9
20°	2110.4	2117.2	2135.3	2171.6	2178.4
22.5°	2053.7	2065.1	2094.5	2135.3	2146.7
25°	1992.5	2008.4	2046.9	2096.8	2117.2
27.5°	1926.8	1944.9	1994.8	2058.3	2080.9
30°	1865.6	1883.7	1944.9	2024.3	2049.2
32.5°	1779.5	1811.2	1892.8	1985.7	2022.0
35°	1697.8	1738.6	1836.1	1949.5	1992.5
37.5°	1611.7	1663.8	1777.2	1915.5	1960.8
40°	1530.1	1584.5	1718.2	1872.4	1924.5
42.5°	1439.4	1502.9	1659.3	1824.8	1879.2
45°	1355.6	1419.0	1600.4	1770.4	1822.5
47.5°	1260.3	1335.2	1530.1	1706.9	1750.0
50°	1181.0	1251.3	1459.8	1623.0	1668.4
52.5°	1076.7	1169.7	1378.2	1532.4	1575.4
55°	992.9	1079.0	1294.4	1434.9	1471.2
57.5°	895.4	999.7	1199.1	1337.4	1369.2
60°	813.8	904.5	1103.9	1230.9	1260.3
62.5°	725.4	822.9	1004.2	1122.1	1156.1
65°	646.0	727.6	904.5	1013.3	1038.2
67.5°	562.2	646.0	807.0	906.7	931.7
70°	480.6	569.0	709.5	800.2	820.6
72.5°	401.2	478.3	609.8	698.2	709.5
75°	328.7	401.2	519.1	596.2	607.5
77.5°	260.7	326.4	433.0	494.2	498.7
80°	192.7	256.2	342.3	374.0	365.0
82.5°	136.0	185.9	249.3	256.2	251.6
85°	83.9	124.7	154.1	172.3	170.0
87.5°	36.3	56.7	79.3	74.8	79.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)