

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: P219953

Luminaire Tested: **R3-WL-5L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35869)
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-14
Description: CLASS R3 1X4 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: 6031.3 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

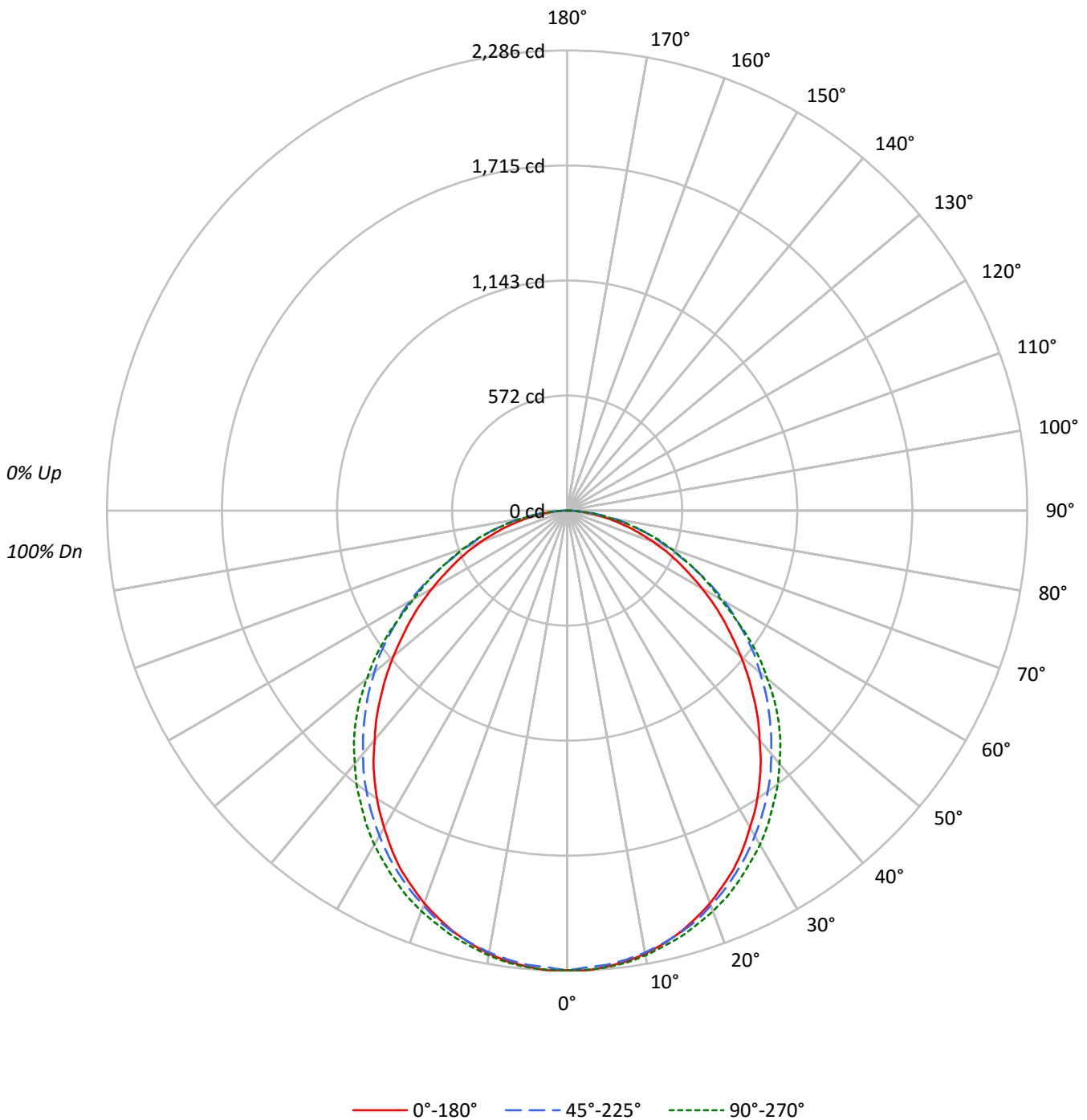
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6144	6144	6144
5°	6143	6119	6151
10°	6107	6091	6132
15°	6043	6051	6101
20°	5945	5979	6065
25°	5825	5896	6012
30°	5647	5797	5956
35°	5467	5684	5862
40°	5224	5540	5762
45°	4985	5396	5659
50°	4716	5232	5433
55°	4454	5060	5144
60°	4172	4851	4737
65°	3883	4514	4534
70°	3592	4207	4279
75°	3248	3998	3998
80°	2841	3724	3491
85°	2411	3060	2689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.8	3.6
10°-20°	614.1	10.2
20°-30°	917.4	15.2
30°-40°	1080.9	17.9
40°-50°	1086.2	18.0
50°-60°	939.6	15.6
60°-70°	679.6	11.3
70°-80°	390.7	6.5
80°-90°	107.1	1.8
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°	1747.3	29.0
0°-40°	2828.2	46.9
0°-60°	4853.9	80.5
0°-90°	6031.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6031.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2283	2283	2283	2283	2283	
5°	2274	2274	2265	2277	2277	216
15°	2169	2172	2172	2190	2190	611
25°	1962	1968	1986	2019	2025	901
35°	1664	1685	1730	1776	1784	1039
45°	1310	1349	1418	1475	1487	1011
55°	949	994	1078	1112	1096	848
65°	610	652	709	712	712	606
75°	312	346	384	397	384	331
85°	78	93	99	93	87	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2283.2	2283.2	2283.2	2283.2	2283.2
2.5°	2286.2	2283.2	2271.2	2283.2	2283.2
5°	2274.2	2274.2	2265.2	2277.2	2277.2
7.5°	2259.2	2256.1	2250.1	2262.2	2265.2
10°	2235.1	2235.1	2229.1	2244.1	2244.1
12.5°	2205.1	2205.1	2202.1	2220.1	2217.1
15°	2169.0	2172.0	2172.0	2190.1	2190.1
17.5°	2124.0	2130.0	2136.0	2157.0	2154.0
20°	2075.9	2081.9	2087.9	2115.0	2118.0
22.5°	2018.8	2027.8	2039.8	2072.9	2075.9
25°	1961.7	1967.7	1985.8	2018.8	2024.8
27.5°	1892.6	1904.7	1928.7	1967.7	1970.8
30°	1817.5	1838.6	1865.6	1907.7	1916.7
32.5°	1745.4	1763.5	1799.5	1844.6	1853.6
35°	1664.3	1685.4	1730.4	1775.5	1784.5
37.5°	1580.2	1601.2	1658.3	1706.4	1718.4
40°	1487.1	1517.1	1577.2	1631.3	1640.3
42.5°	1403.0	1430.0	1499.1	1553.2	1568.2
45°	1309.8	1348.9	1418.0	1475.1	1487.1
47.5°	1219.7	1255.8	1336.9	1390.9	1397.0
50°	1126.6	1171.6	1249.7	1303.8	1297.8
52.5°	1033.4	1081.5	1171.6	1204.7	1204.7
55°	949.3	994.4	1078.5	1111.6	1096.5
57.5°	862.2	910.3	991.4	1012.4	982.4
60°	775.1	820.1	901.3	898.3	880.2
62.5°	688.0	736.0	808.1	802.1	796.1
65°	609.9	651.9	709.0	712.0	712.0
67.5°	534.7	576.8	615.9	630.9	621.9
70°	456.6	498.7	534.7	549.8	543.8
72.5°	381.5	426.6	456.6	474.7	468.7
75°	312.4	345.5	384.5	396.6	384.5
77.5°	243.3	276.4	312.4	318.4	306.4
80°	183.3	210.3	240.3	234.3	225.3
82.5°	129.2	150.2	168.2	159.2	153.2
85°	78.1	93.1	99.1	93.1	87.1
87.5°	33.0	39.1	39.1	33.0	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)