

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: P219954

Luminaire Tested: **R3-WL-1L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219954
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-1L40-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2145.5 lumens
Efficiency: N/A
Efficacy: 135.8 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

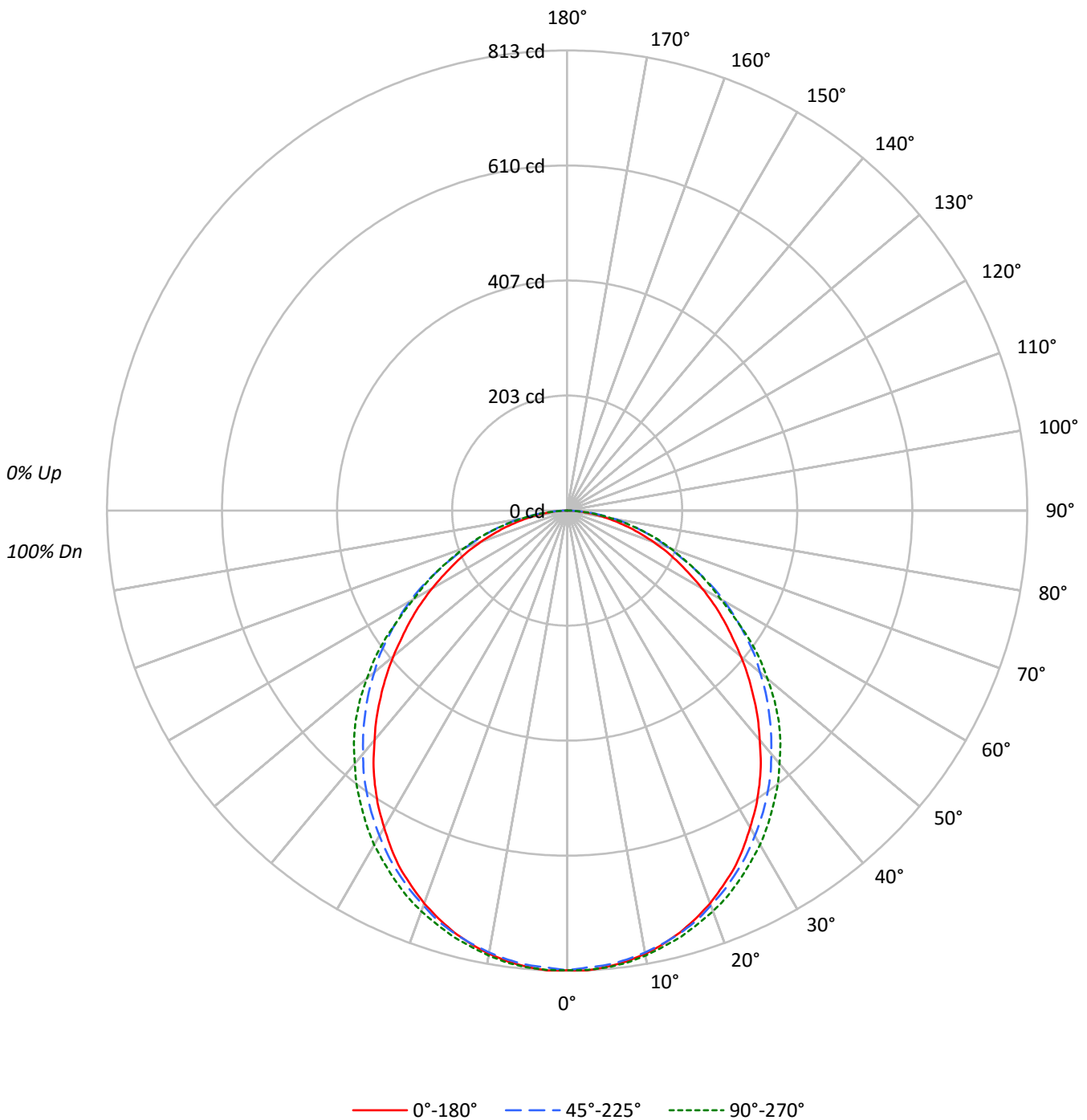
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2186	2186	2186
5°	2185	2177	2188
10°	2173	2167	2181
15°	2150	2152	2170
20°	2115	2127	2157
25°	2072	2097	2139
30°	2009	2062	2119
35°	1945	2022	2085
40°	1858	1971	2050
45°	1773	1920	2013
50°	1678	1861	1933
55°	1584	1800	1830
60°	1484	1725	1685
65°	1381	1606	1613
70°	1278	1496	1522
75°	1155	1422	1422
80°	1010	1325	1243
85°	858	1090	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	3.6
10°-20°	218.5	10.2
20°-30°	326.3	15.2
30°-40°	384.5	17.9
40°-50°	386.4	18.0
50°-60°	334.2	15.6
60°-70°	241.7	11.3
70°-80°	139.0	6.5
80°-90°	38.1	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°	621.6	29.0
0°-40°	1006.1	46.9
0°-60°	1726.7	80.5
0°-90°	2145.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2145.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	809	809	806	810	810	77
15°	772	773	773	779	779	217
25°	698	700	706	718	720	321
35°	592	600	616	632	635	370
45°	466	480	504	525	529	359
55°	338	354	384	395	390	302
65°	217	232	252	253	253	215
75°	111	123	137	141	137	118
85°	28	33	35	33	31	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.2	812.2	812.2	812.2	812.2
2.5°	813.3	812.2	807.9	812.2	812.2
5°	809.0	809.0	805.8	810.1	810.1
7.5°	803.6	802.6	800.4	804.7	805.8
10°	795.1	795.1	793.0	798.3	798.3
12.5°	784.4	784.4	783.3	789.7	788.7
15°	771.6	772.6	772.6	779.1	779.1
17.5°	755.6	757.7	759.8	767.3	766.2
20°	738.5	740.6	742.7	752.3	753.4
22.5°	718.1	721.4	725.6	737.4	738.5
25°	697.8	700.0	706.4	718.1	720.3
27.5°	673.3	677.5	686.1	700.0	701.0
30°	646.5	654.0	663.6	678.6	681.8
32.5°	620.9	627.3	640.1	656.2	659.4
35°	592.0	599.5	615.6	631.6	634.8
37.5°	562.1	569.6	589.9	607.0	611.3
40°	529.0	539.7	561.1	580.3	583.5
42.5°	499.1	508.7	533.3	552.5	557.8
45°	465.9	479.8	504.4	524.7	529.0
47.5°	433.9	446.7	475.6	494.8	496.9
50°	400.8	416.8	444.6	463.8	461.7
52.5°	367.6	384.7	416.8	428.5	428.5
55°	337.7	353.7	383.7	395.4	390.1
57.5°	306.7	323.8	352.7	360.1	349.5
60°	275.7	291.7	320.6	319.5	313.1
62.5°	244.7	261.8	287.5	285.3	283.2
65°	216.9	231.9	252.2	253.3	253.3
67.5°	190.2	205.2	219.1	224.4	221.2
70°	162.4	177.4	190.2	195.6	193.4
72.5°	135.7	151.8	162.4	168.9	166.7
75°	111.1	122.9	136.8	141.1	136.8
77.5°	86.6	98.3	111.1	113.3	109.0
80°	65.2	74.8	85.5	83.4	80.2
82.5°	46.0	53.4	59.8	56.6	54.5
85°	27.8	33.1	35.3	33.1	31.0
87.5°	11.8	13.9	13.9	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)