

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: P219957

Luminaire Tested: **R3-WL-4L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219957
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-4L40-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

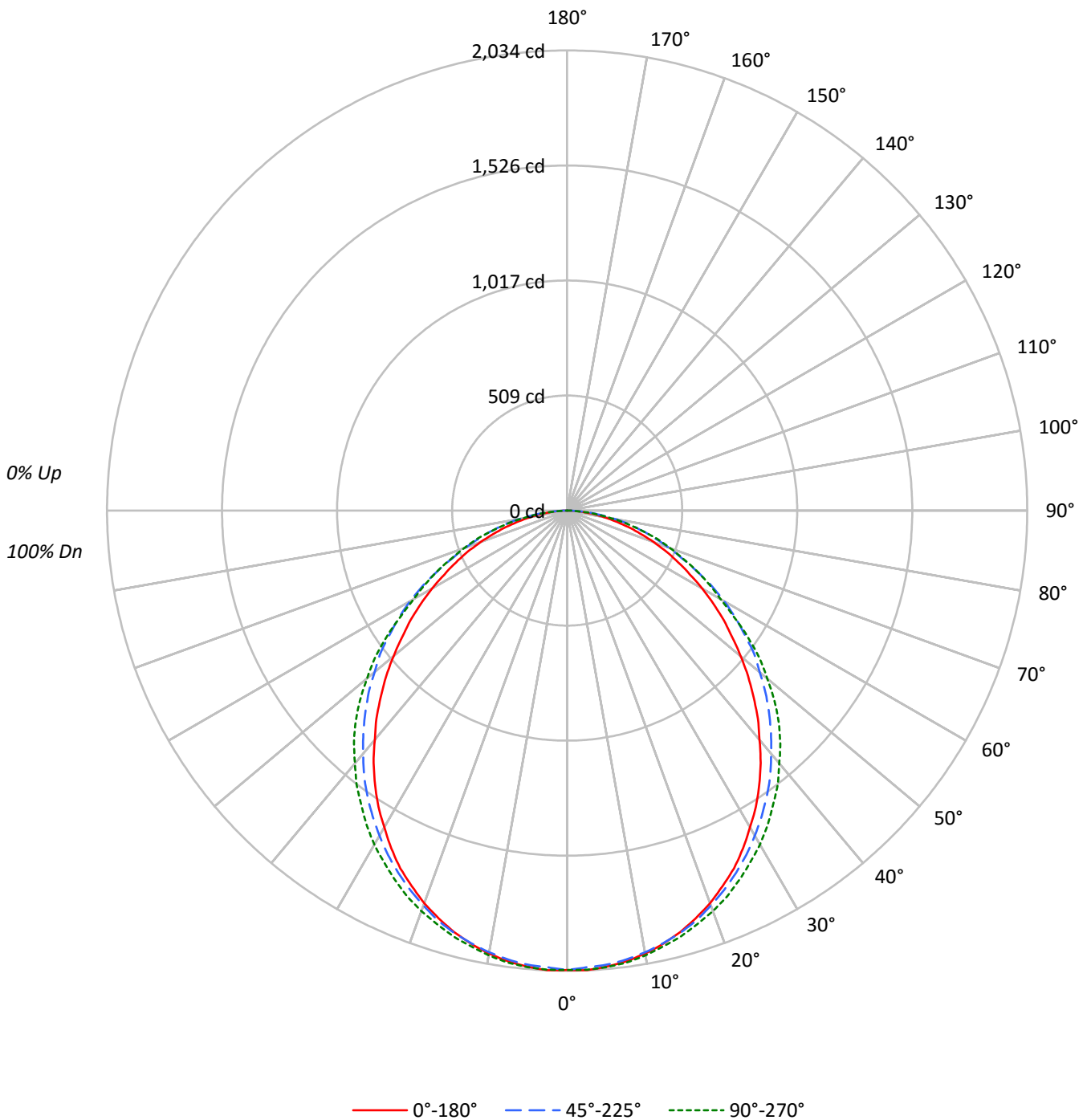
Lumens per Lamp: N/A
Luminaire Lumens: 5364.8 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.3
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°	5465	5465	5465
5°	5464	5443	5471
10°	5432	5418	5454
15°	5375	5382	5427
20°	5288	5318	5395
25°	5181	5244	5348
30°	5024	5156	5298
35°	4863	5056	5214
40°	4646	4928	5125
45°	4434	4800	5034
50°	4195	4654	4833
55°	3962	4501	4576
60°	3710	4315	4214
65°	3454	4015	4032
70°	3196	3743	3806
75°	2889	3556	3556
80°	2526	3313	3106
85°	2146	2723	2393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	3.6
10°-20°	546.3	10.2
20°-30°	816.0	15.2
30°-40°	961.4	17.9
40°-50°	966.1	18.0
50°-60°	835.7	15.6
60°-70°	604.5	11.3
70°-80°	347.5	6.5
80°-90°	95.3	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°	1554.2	29.0
0°-40°	2515.6	46.9
0°-60°	4317.5	80.5
0°-90°	5364.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5364.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2031	2031	2031	2031	2031	
5°	2023	2023	2015	2026	2026	192
15°	1929	1932	1932	1948	1948	543
25°	1745	1750	1766	1796	1801	802
35°	1480	1499	1539	1579	1587	924
45°	1165	1200	1261	1312	1323	899
55°	844	884	959	989	975	755
65°	542	580	631	633	633	539
75°	278	307	342	353	342	295
85°	70	83	88	83	78	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2030.9	2030.9	2030.9	2030.9	2030.9
2.5°	2033.6	2030.9	2020.2	2030.9	2030.9
5°	2022.9	2022.9	2014.9	2025.5	2025.5
7.5°	2009.5	2006.8	2001.5	2012.2	2014.9
10°	1988.1	1988.1	1982.8	1996.1	1996.1
12.5°	1961.4	1961.4	1958.7	1974.8	1972.1
15°	1929.3	1932.0	1932.0	1948.0	1948.0
17.5°	1889.3	1894.6	1899.9	1918.7	1916.0
20°	1846.5	1851.8	1857.2	1881.2	1883.9
22.5°	1795.7	1803.7	1814.4	1843.8	1846.5
25°	1745.0	1750.3	1766.3	1795.7	1801.1
27.5°	1683.5	1694.2	1715.6	1750.3	1753.0
30°	1616.7	1635.4	1659.4	1696.9	1704.9
32.5°	1552.6	1568.6	1600.7	1640.7	1648.8
35°	1480.4	1499.1	1539.2	1579.3	1587.3
37.5°	1405.6	1424.3	1475.1	1517.8	1528.5
40°	1322.7	1349.5	1402.9	1451.0	1459.0
42.5°	1247.9	1272.0	1333.4	1381.5	1394.9
45°	1165.1	1199.8	1261.3	1312.1	1322.7
47.5°	1084.9	1117.0	1189.1	1237.2	1242.6
50°	1002.1	1042.2	1111.6	1159.7	1154.4
52.5°	919.2	962.0	1042.2	1071.6	1071.6
55°	844.4	884.5	959.3	988.7	975.4
57.5°	766.9	809.7	881.8	900.5	873.8
60°	689.4	729.5	801.7	799.0	783.0
62.5°	611.9	654.7	718.8	713.5	708.1
65°	542.5	579.9	630.6	633.3	633.3
67.5°	475.7	513.1	547.8	561.2	553.1
70°	406.2	443.6	475.7	489.0	483.7
72.5°	339.4	379.5	406.2	422.2	416.9
75°	277.9	307.3	342.0	352.7	342.0
77.5°	216.4	245.8	277.9	283.3	272.6
80°	163.0	187.1	213.8	208.4	200.4
82.5°	114.9	133.6	149.6	141.6	136.3
85°	69.5	82.8	88.2	82.8	77.5
87.5°	29.4	34.7	34.7	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)