

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: P219966

Luminaire Tested: **R3-WG-4L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35870)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-4L35-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4623.2 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

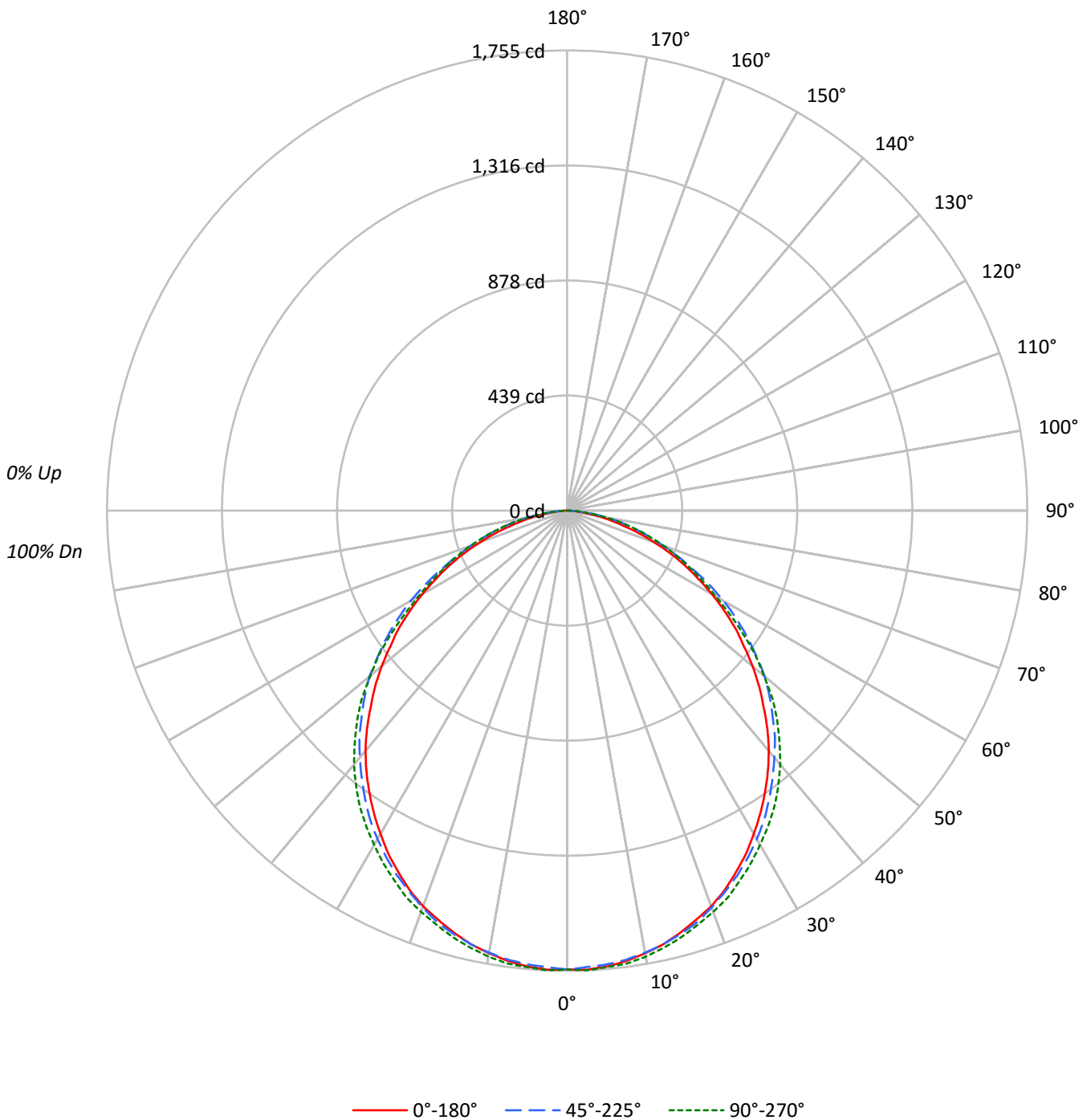
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4709	4709	4709
5°	4713	4693	4720
10°	4685	4678	4720
15°	4643	4657	4692
20°	4598	4613	4664
25°	4520	4558	4625
30°	4424	4495	4573
35°	4320	4411	4527
40°	4202	4317	4442
45°	4032	4215	4311
50°	3864	4118	4097
55°	3678	3927	3844
60°	3430	3702	3525
65°	3156	3365	3285
70°	2785	3044	3084
75°	2287	2760	2787
80°	1802	2351	2351
85°	1250	1717	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	3.6
10°-20°	472.6	10.2
20°-30°	709.2	15.3
30°-40°	841.2	18.2
40°-50°	850.3	18.4
50°-60°	731.1	15.8
60°-70°	515.9	11.2
70°-80°	275.0	5.9
80°-90°	62.3	1.3
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°	1347.5	29.1
0°-40°	2188.7	47.3
0°-60°	3770.0	81.5
0°-90°	4623.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4623.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1750	1750	1750	1750	1750	
5°	1745	1742	1737	1748	1748	166
15°	1666	1672	1672	1684	1684	470
25°	1522	1527	1535	1558	1558	701
35°	1315	1325	1343	1371	1378	822
45°	1060	1077	1108	1128	1133	819
55°	784	807	837	834	819	698
65°	496	521	528	524	516	490
75°	220	250	266	276	268	239
85°	40	48	56	51	51	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1750.0	1750.0	1750.0	1750.0	1750.0
2.5°	1752.5	1750.0	1742.4	1752.5	1755.0
5°	1744.9	1742.4	1737.3	1747.5	1747.5
7.5°	1732.3	1732.3	1727.2	1739.9	1742.4
10°	1714.6	1714.6	1712.0	1724.7	1727.2
12.5°	1694.3	1696.9	1694.3	1707.0	1707.0
15°	1666.5	1671.6	1671.6	1684.2	1684.2
17.5°	1636.2	1641.2	1646.3	1656.4	1656.4
20°	1605.8	1605.8	1610.9	1626.1	1628.6
22.5°	1567.9	1570.4	1573.0	1593.2	1598.2
25°	1522.4	1527.4	1535.0	1557.8	1557.8
27.5°	1476.9	1484.4	1492.0	1514.8	1517.3
30°	1423.8	1431.3	1446.5	1466.7	1471.8
32.5°	1370.6	1378.2	1398.5	1418.7	1426.3
35°	1315.0	1325.1	1342.8	1370.6	1378.2
37.5°	1256.9	1264.4	1287.2	1317.5	1322.6
40°	1196.2	1203.7	1229.0	1256.9	1264.4
42.5°	1130.4	1140.5	1173.4	1198.7	1198.7
45°	1059.6	1077.3	1107.6	1127.9	1132.9
47.5°	993.8	1006.5	1047.0	1064.7	1062.1
50°	923.0	940.7	983.7	988.8	978.7
52.5°	849.7	872.5	907.9	912.9	905.3
55°	784.0	806.7	837.1	834.5	819.4
57.5°	710.6	735.9	763.7	748.5	733.4
60°	637.3	662.6	687.9	665.1	655.0
62.5°	563.9	591.8	609.5	586.7	584.2
65°	495.7	520.9	528.5	523.5	515.9
67.5°	424.9	452.7	457.7	455.2	452.7
70°	354.0	384.4	386.9	392.0	392.0
72.5°	285.8	316.1	326.2	333.8	328.8
75°	220.0	250.4	265.5	275.6	268.1
77.5°	166.9	189.7	209.9	209.9	209.9
80°	116.3	136.6	151.7	154.3	151.7
82.5°	73.3	88.5	101.2	96.1	96.1
85°	40.5	48.0	55.6	50.6	50.6
87.5°	15.2	17.7	15.2	12.6	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)