

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: P220198

Luminaire Tested: **R3-WL-2L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220198
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-2L35-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: 3997.8 lumens
Efficiency: N/A
Efficacy: 131.1 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

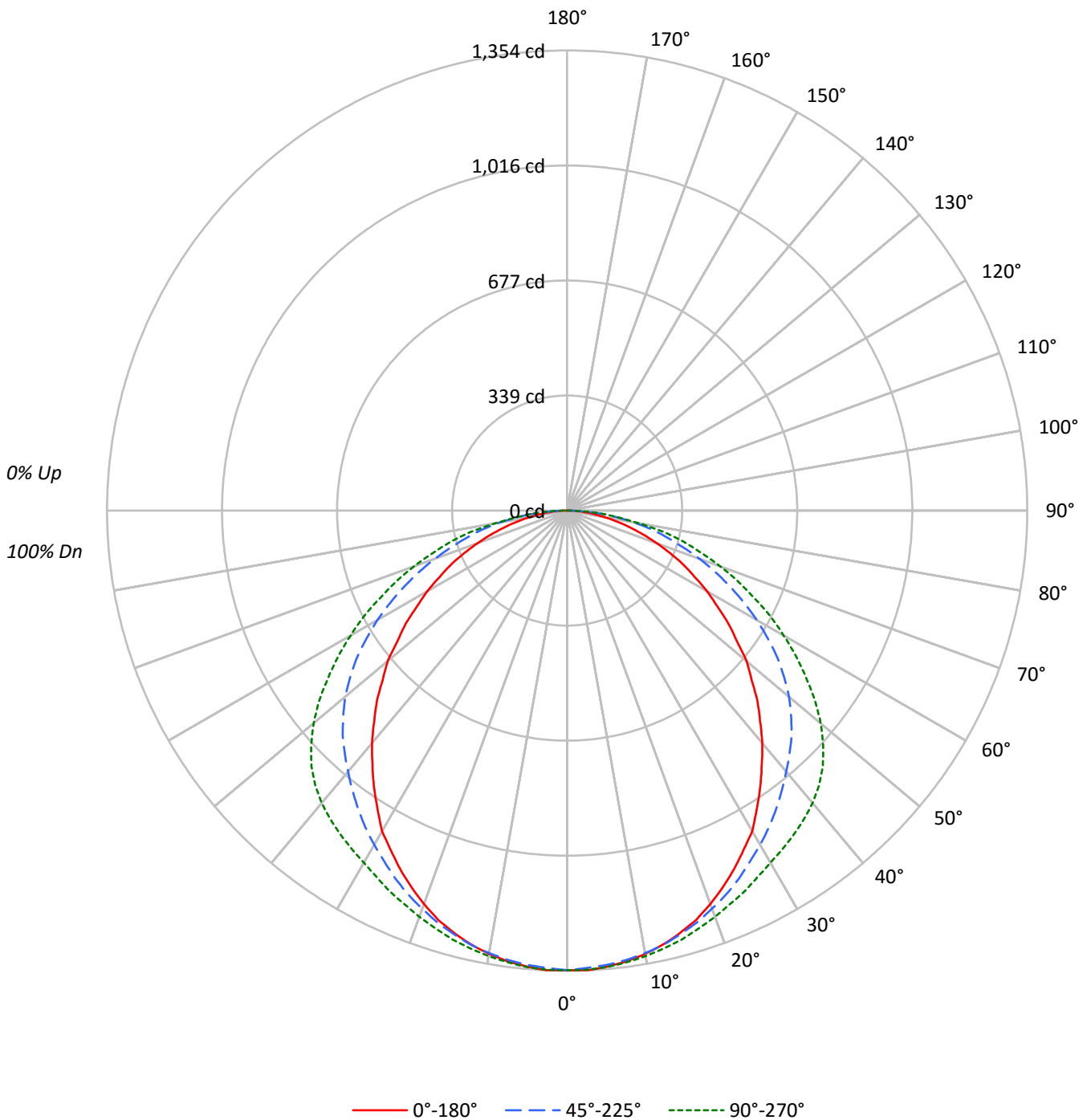
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1820	1820	1820
5°	1819	1812	1821
10°	1810	1806	1819
15°	1792	1797	1819
20°	1764	1785	1821
25°	1727	1774	1835
30°	1692	1764	1859
35°	1628	1761	1911
40°	1569	1762	1973
45°	1506	1778	2025
50°	1443	1784	2039
55°	1360	1772	2015
60°	1278	1734	1980
65°	1201	1681	1930
70°	1103	1629	1884
75°	998	1575	1844
80°	872	1548	1651
85°	756	1389	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	3.2
10°-20°	365.2	9.1
20°-30°	552.3	13.8
30°-40°	673.6	16.8
40°-50°	716.9	17.9
50°-60°	657.2	16.4
60°-70°	505.1	12.6
70°-80°	306.0	7.7
80°-90°	93.6	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°	1045.3	26.1
0°-40°	1718.9	43.0
0°-60°	3093.0	77.4
0°-90°	3997.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3997.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1347	1346	1342	1348	1348	128
15°	1286	1288	1290	1302	1306	363
25°	1163	1172	1195	1224	1236	536
35°	991	1015	1072	1138	1163	620
45°	791	828	934	1034	1064	609
55°	580	630	756	838	859	517
65°	377	425	528	592	606	373
75°	192	234	303	348	355	204
85°	49	73	90	101	99	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1352.4	1352.4	1352.4	1352.4	1352.4
2.5°	1353.8	1351.1	1347.1	1352.4	1352.4
5°	1347.1	1345.8	1341.8	1348.5	1348.5
7.5°	1337.9	1336.6	1333.9	1341.8	1340.5
10°	1324.6	1323.3	1322.0	1331.3	1331.3
12.5°	1307.4	1307.4	1308.8	1318.0	1319.4
15°	1286.3	1287.6	1290.2	1302.1	1306.1
17.5°	1262.4	1263.8	1270.4	1286.3	1288.9
20°	1232.0	1236.0	1246.6	1267.7	1271.7
22.5°	1198.9	1205.5	1222.7	1246.6	1253.2
25°	1163.2	1172.5	1195.0	1224.1	1236.0
27.5°	1124.8	1135.4	1164.5	1201.6	1214.8
30°	1089.1	1099.7	1135.4	1181.7	1196.3
32.5°	1038.8	1057.3	1105.0	1159.2	1180.4
35°	991.2	1015.0	1071.9	1138.1	1163.2
37.5°	940.9	971.3	1037.5	1118.2	1144.7
40°	893.2	925.0	1003.1	1093.1	1123.5
42.5°	840.3	877.4	968.7	1065.3	1097.0
45°	791.3	828.4	934.3	1033.5	1064.0
47.5°	735.8	779.4	893.2	996.5	1021.6
50°	689.5	730.5	852.2	947.5	974.0
52.5°	628.6	682.8	804.6	894.6	919.7
55°	579.6	629.9	755.6	837.7	858.8
57.5°	522.7	583.6	700.0	780.8	799.3
60°	475.1	528.0	644.5	718.6	735.8
62.5°	423.5	480.4	586.2	655.0	674.9
65°	377.1	424.8	528.0	591.5	606.1
67.5°	328.2	377.1	471.1	529.3	543.9
70°	280.5	332.2	414.2	467.1	479.0
72.5°	234.2	279.2	356.0	407.6	414.2
75°	191.9	234.2	303.0	348.0	354.7
77.5°	152.2	190.6	252.8	288.5	291.1
80°	112.5	149.5	199.8	218.3	213.1
82.5°	79.4	108.5	145.6	149.5	146.9
85°	49.0	72.8	90.0	100.6	99.2
87.5°	21.2	33.1	46.3	43.7	46.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)