

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: P220203

Luminaire Tested: **R3-WL-2L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220203
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-2L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

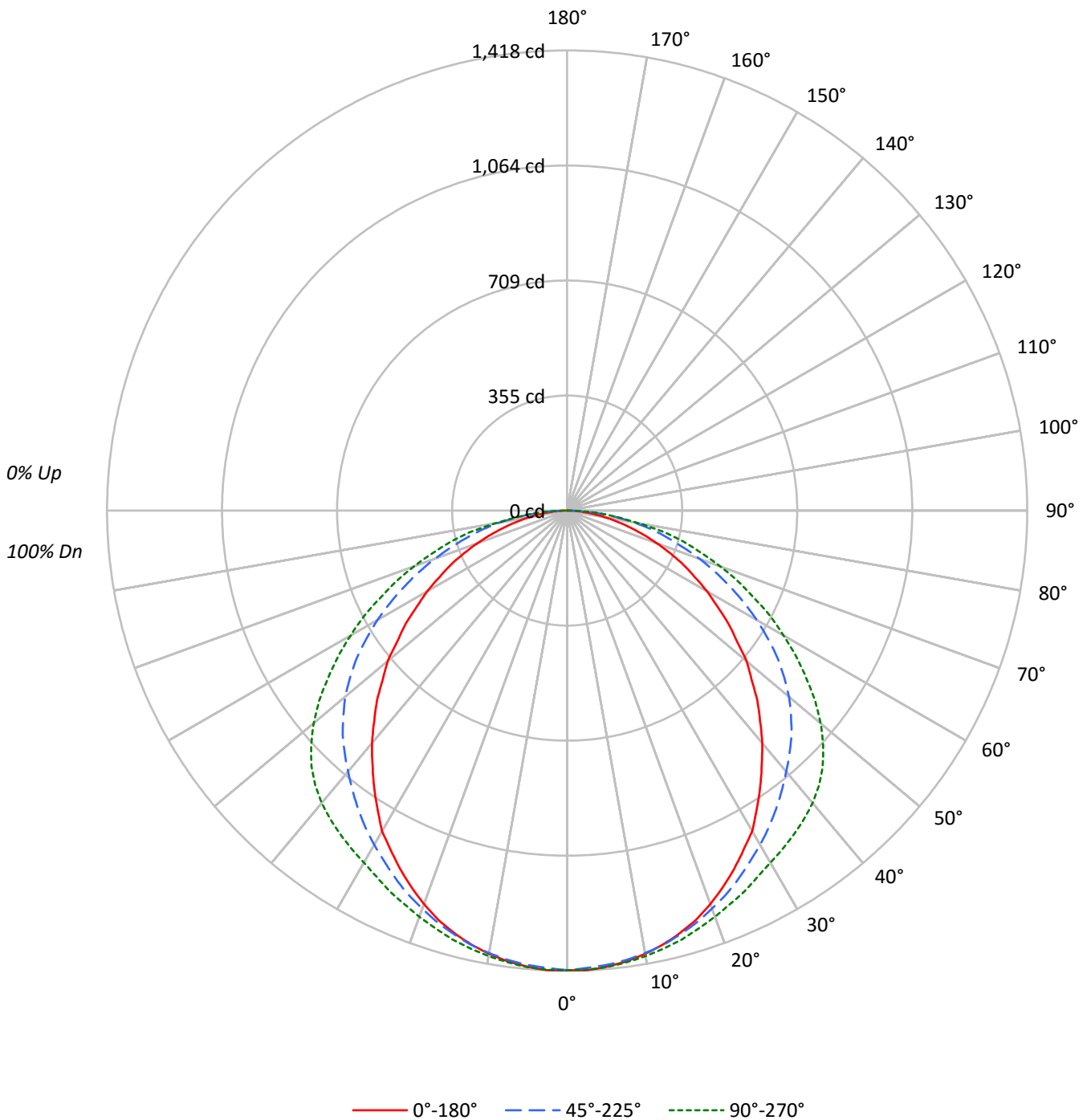
Lumens per Lamp: N/A
Luminaire Lumens: 4186.4 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1905	1905	1905
5°	1905	1898	1907
10°	1895	1891	1905
15°	1876	1882	1905
20°	1847	1869	1907
25°	1808	1858	1921
30°	1772	1847	1946
35°	1705	1844	2001
40°	1643	1845	2066
45°	1577	1862	2120
50°	1511	1868	2135
55°	1424	1856	2110
60°	1339	1816	2073
65°	1257	1760	2021
70°	1156	1706	1973
75°	1044	1650	1931
80°	913	1621	1729
85°	792	1454	1604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	3.2
10°-20°	382.4	9.1
20°-30°	578.4	13.8
30°-40°	705.4	16.8
40°-50°	750.7	17.9
50°-60°	688.2	16.4
60°-70°	528.9	12.6
70°-80°	320.5	7.7
80°-90°	98.0	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°	1094.6	26.1
0°-40°	1800.0	43.0
0°-60°	3238.9	77.4
0°-90°	4186.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4186.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1411	1409	1405	1412	1412	134
15°	1347	1348	1351	1364	1368	380
25°	1218	1228	1251	1282	1294	561
35°	1038	1063	1122	1192	1218	649
45°	829	868	978	1082	1114	638
55°	607	660	791	877	899	541
65°	395	445	553	619	635	390
75°	201	245	317	364	371	214
85°	51	76	94	105	104	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1416.2	1416.2	1416.2	1416.2	1416.2
2.5°	1417.6	1414.9	1410.7	1416.2	1416.2
5°	1410.7	1409.3	1405.2	1412.1	1412.1
7.5°	1401.0	1399.6	1396.8	1405.2	1403.8
10°	1387.1	1385.8	1384.4	1394.1	1394.1
12.5°	1369.1	1369.1	1370.5	1380.2	1381.6
15°	1347.0	1348.3	1351.1	1363.6	1367.7
17.5°	1322.0	1323.4	1330.3	1347.0	1349.7
20°	1290.1	1294.3	1305.4	1327.6	1331.7
22.5°	1255.5	1262.4	1280.4	1305.4	1312.3
25°	1218.1	1227.8	1251.3	1281.8	1294.3
27.5°	1177.9	1189.0	1219.5	1258.3	1272.1
30°	1140.5	1151.6	1189.0	1237.5	1252.7
32.5°	1087.8	1107.2	1157.1	1213.9	1236.1
35°	1037.9	1062.9	1122.5	1191.7	1218.1
37.5°	985.3	1017.1	1086.4	1171.0	1198.7
40°	935.4	968.6	1050.4	1144.6	1176.5
42.5°	880.0	918.8	1014.4	1115.5	1148.8
45°	828.7	867.5	978.3	1082.3	1114.1
47.5°	770.5	816.2	935.4	1043.5	1069.8
50°	722.0	764.9	892.4	992.2	1019.9
52.5°	658.2	715.0	842.5	936.8	963.1
55°	607.0	659.6	791.3	877.2	899.4
57.5°	547.4	611.1	733.1	817.6	837.0
60°	497.5	552.9	674.9	752.5	770.5
62.5°	443.4	503.0	613.9	685.9	706.7
65°	394.9	444.8	552.9	619.4	634.7
67.5°	343.7	394.9	493.3	554.3	569.5
70°	293.8	347.8	433.7	489.2	501.6
72.5°	245.3	292.4	372.8	426.8	433.7
75°	200.9	245.3	317.3	364.5	371.4
77.5°	159.4	199.5	264.7	302.1	304.9
80°	117.8	156.6	209.2	228.6	223.1
82.5°	83.1	113.6	152.4	156.6	153.8
85°	51.3	76.2	94.2	105.3	103.9
87.5°	22.2	34.6	48.5	45.7	48.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)