

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: P220122

Luminaire Tested: **R3-WN-4L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35856)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-4L40-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3618.8 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

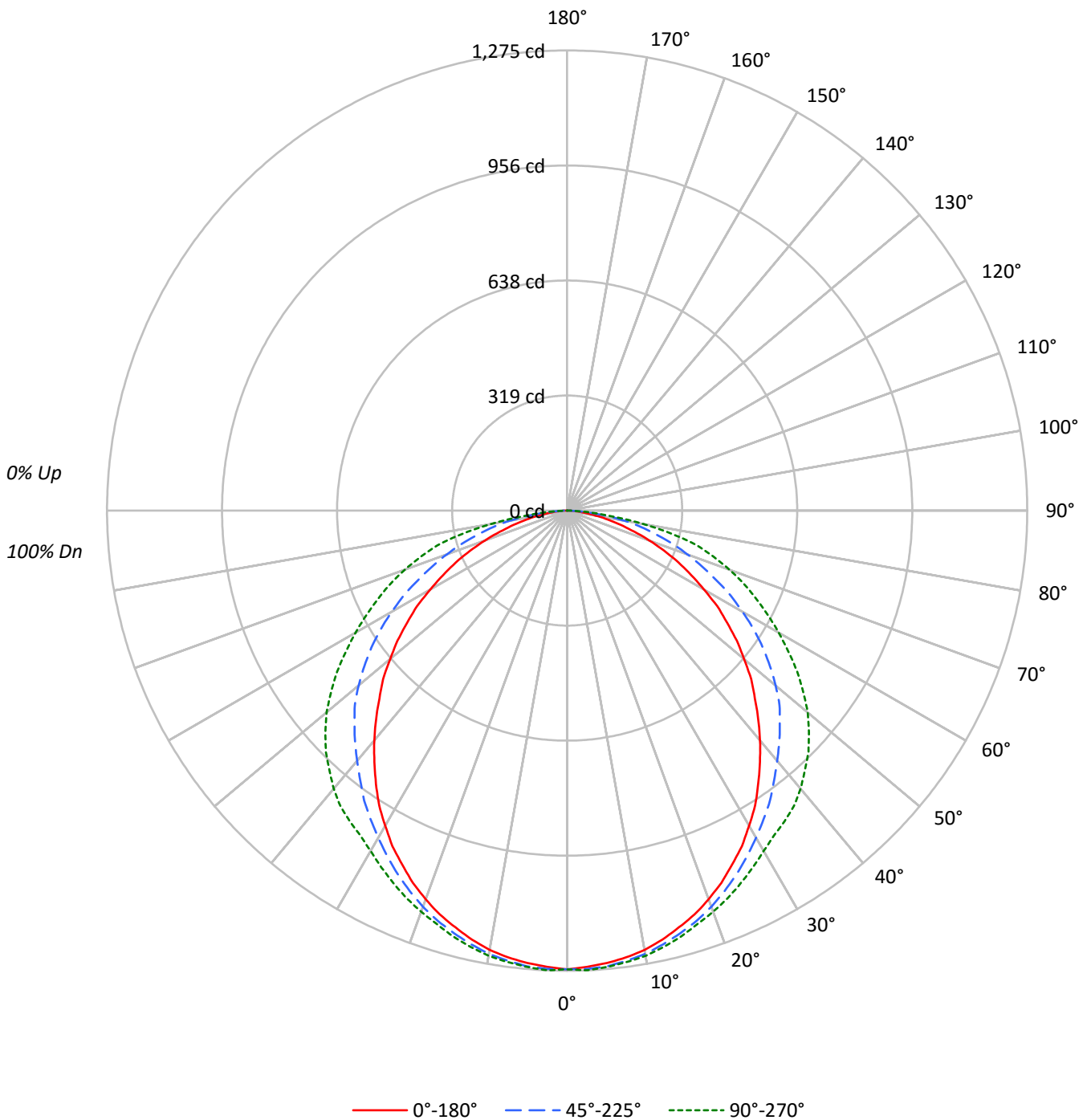
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3421	3421	3421
5°	3399	3424	3429
10°	3378	3408	3423
15°	3331	3377	3403
20°	3282	3345	3387
25°	3211	3299	3381
30°	3132	3252	3384
35°	3033	3221	3451
40°	2921	3179	3535
45°	2800	3171	3598
50°	2680	3157	3643
55°	2537	3107	3651
60°	2356	3020	3643
65°	2167	2905	3678
70°	1910	2793	3763
75°	1588	2659	3864
80°	1254	2479	3307
85°	852	1760	2214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	3.3
10°-20°	341.6	9.4
20°-30°	512.1	14.2
30°-40°	615.2	17.0
40°-50°	645.9	17.8
50°-60°	589.2	16.3
60°-70°	453.9	12.5
70°-80°	273.1	7.5
80°-90°	67.7	1.9
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°	973.8	26.9
0°-40°	1589.0	43.9
0°-60°	2824.1	78.0
0°-90°	3618.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3618.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1258	1262	1267	1269	1269	119
15°	1196	1201	1212	1220	1221	337
25°	1082	1091	1111	1131	1139	498
35°	923	938	980	1026	1050	577
45°	736	760	833	912	946	569
55°	541	576	662	745	778	484
65°	340	377	456	541	578	336
75°	153	190	256	335	372	165
85°	28	40	57	66	72	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1271.1	1271.1	1271.1	1271.1	1271.1
2.5°	1265.6	1267.4	1271.1	1274.8	1274.8
5°	1258.2	1261.9	1267.4	1269.3	1269.3
7.5°	1249.0	1252.7	1258.2	1261.9	1261.9
10°	1236.2	1238.0	1247.2	1250.9	1252.7
12.5°	1217.8	1223.3	1230.6	1238.0	1238.0
15°	1195.7	1201.2	1212.2	1219.6	1221.4
17.5°	1173.6	1179.1	1192.0	1201.2	1201.2
20°	1146.0	1153.4	1168.1	1179.1	1182.8
22.5°	1116.6	1123.9	1140.5	1155.2	1162.6
25°	1081.6	1090.8	1111.1	1131.3	1138.7
27.5°	1048.5	1055.9	1079.8	1107.4	1114.7
30°	1008.1	1019.1	1046.7	1078.0	1089.0
32.5°	969.4	980.5	1013.6	1050.4	1066.9
35°	923.4	938.2	980.5	1026.4	1050.4
37.5°	877.4	894.0	941.8	1002.5	1032.0
40°	831.5	849.9	905.0	980.5	1006.2
42.5°	783.6	805.7	870.1	949.2	974.9
45°	735.8	759.7	833.3	912.4	945.5
47.5°	691.7	715.6	798.3	877.4	908.7
50°	640.1	669.6	754.2	838.8	870.1
52.5°	592.3	619.9	708.2	792.8	824.1
55°	540.8	575.8	662.2	745.0	778.1
57.5°	493.0	524.3	612.6	693.5	726.6
60°	437.8	474.6	561.1	642.0	676.9
62.5°	388.1	424.9	511.4	590.5	627.3
65°	340.3	377.1	456.2	540.8	577.6
67.5°	290.6	329.3	404.7	491.1	529.8
70°	242.8	277.8	355.0	439.6	478.3
72.5°	195.0	231.8	305.4	388.1	424.9
75°	152.7	189.5	255.7	334.8	371.6
77.5°	115.9	145.3	209.7	275.9	298.0
80°	80.9	108.5	160.0	204.2	213.4
82.5°	51.5	73.6	104.9	128.8	126.9
85°	27.6	40.5	57.0	66.2	71.7
87.5°	12.9	14.7	18.4	23.9	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)