

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: P220071

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220071  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35853)  
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-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (84) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

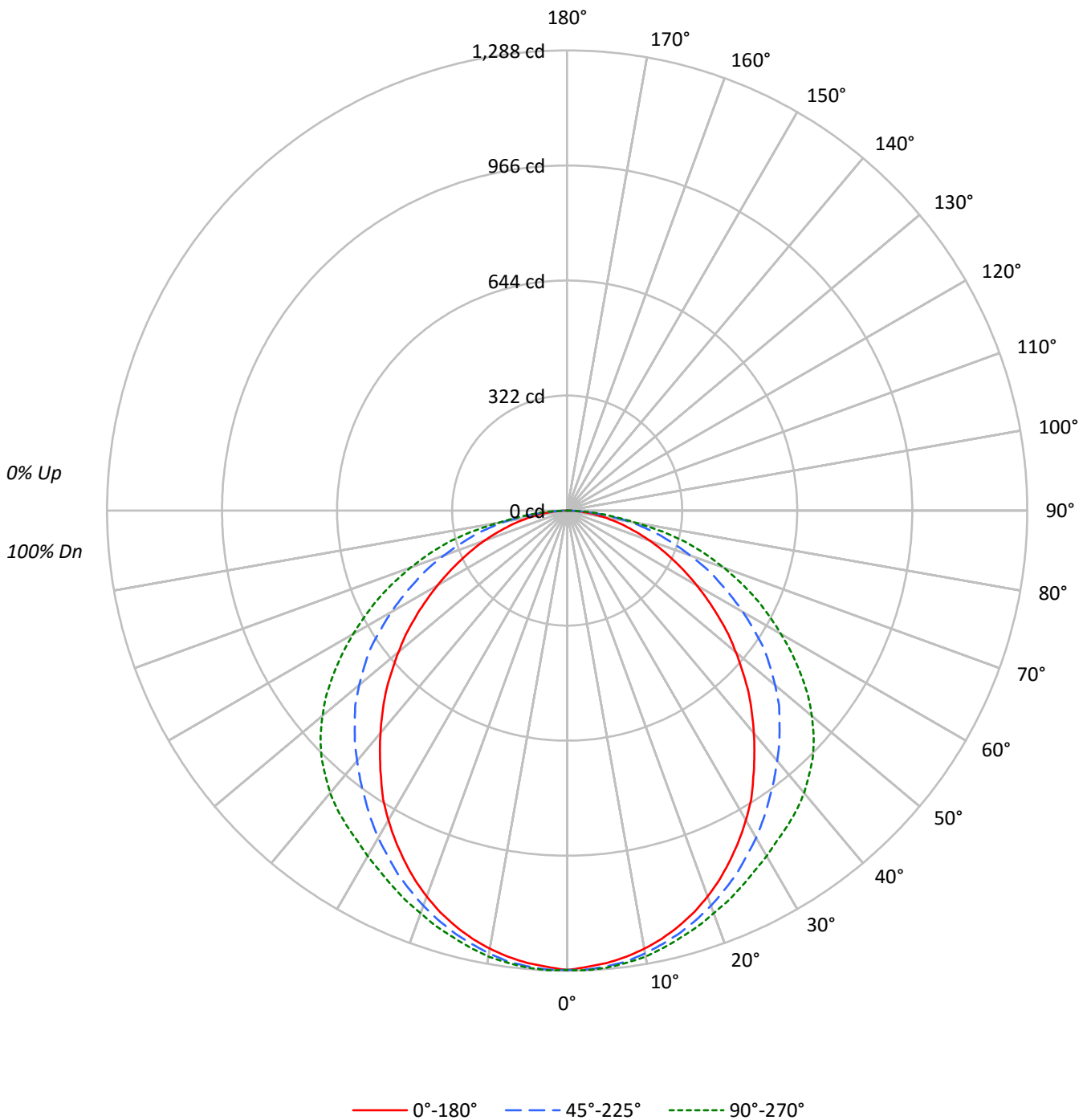
Lumens per Lamp: N/A  
Luminaire Lumens: 3655.8 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	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	33	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°	3460	3460	3460
5°	3434	3458	3468
10°	3403	3438	3463
15°	3357	3408	3444
20°	3292	3371	3435
25°	3206	3332	3441
30°	3109	3287	3470
35°	2985	3239	3535
40°	2856	3211	3625
45°	2730	3199	3703
50°	2580	3180	3743
55°	2425	3150	3745
60°	2257	3059	3723
65°	2085	2975	3713
70°	1939	2880	3662
75°	1759	2811	3595
80°	1568	2709	2992
85°	1420	2158	2612



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	3.3
10°-20°	344.8	9.4
20°-30°	516.4	14.1
30°-40°	619.9	17.0
40°-50°	649.6	17.8
50°-60°	591.8	16.2
60°-70°	456.8	12.5
70°-80°	277.3	7.6
80°-90°	77.8	2.1
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°	982.6	26.9
0°-40°	1602.5	43.8
0°-60°	2843.9	77.8
0°-90°	3655.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1271	1275	1280	1284	1284	121
15°	1205	1212	1223	1234	1236	339
25°	1080	1093	1122	1148	1159	497
35°	909	931	986	1050	1076	569
45°	717	749	841	936	973	552
55°	517	559	671	763	798	463
65°	327	373	467	550	583	327
75°	169	202	270	327	346	180
85°	46	55	70	81	85	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1285.8	1285.8	1285.8	1285.8	1285.8
2.5°	1278.5	1280.3	1285.8	1287.7	1287.7
5°	1271.1	1274.8	1280.3	1284.0	1284.0
7.5°	1260.1	1263.7	1272.9	1276.6	1276.6
10°	1245.3	1250.9	1258.2	1265.6	1267.4
12.5°	1226.9	1232.5	1241.7	1250.9	1252.7
15°	1204.9	1212.2	1223.3	1234.3	1236.1
17.5°	1179.1	1186.5	1201.2	1215.9	1219.6
20°	1149.7	1157.0	1177.3	1195.7	1199.4
22.5°	1116.6	1127.6	1149.7	1173.6	1181.0
25°	1079.8	1092.7	1122.1	1147.9	1158.9
27.5°	1041.2	1055.9	1089.0	1123.9	1136.8
30°	1000.7	1015.4	1057.7	1098.2	1116.6
32.5°	958.4	973.1	1022.8	1074.3	1094.5
35°	908.7	930.8	986.0	1050.4	1076.1
37.5°	860.9	886.6	951.0	1026.4	1055.9
40°	813.1	840.7	914.2	998.9	1032.0
42.5°	765.2	794.7	879.3	971.3	1002.5
45°	717.4	748.7	840.7	936.3	973.1
47.5°	665.9	700.9	803.9	897.7	936.3
50°	616.2	654.9	759.7	859.0	894.0
52.5°	568.4	605.2	715.6	814.9	849.9
55°	516.9	559.2	671.4	763.4	798.3
57.5°	467.2	511.4	618.1	713.7	746.8
60°	419.4	461.7	568.4	660.4	691.7
62.5°	373.4	417.6	516.9	605.2	636.5
65°	327.4	373.4	467.2	550.0	583.1
67.5°	287.0	327.4	419.4	496.7	524.3
70°	246.5	281.4	366.1	439.6	465.4
72.5°	206.0	241.0	316.4	382.6	406.5
75°	169.2	202.3	270.4	327.4	345.8
77.5°	134.3	163.7	222.6	268.6	274.1
80°	101.2	125.1	174.8	195.0	193.1
82.5°	73.6	90.1	117.7	132.4	132.4
85°	46.0	55.2	69.9	80.9	84.6
87.5°	20.2	23.9	29.4	31.3	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)