

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: P220064

Luminaire Tested: **R3-WL-3L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220064  
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-3L35-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (84) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3064.7 lumens  
Efficiency: N/A  
Efficacy: 119.7 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

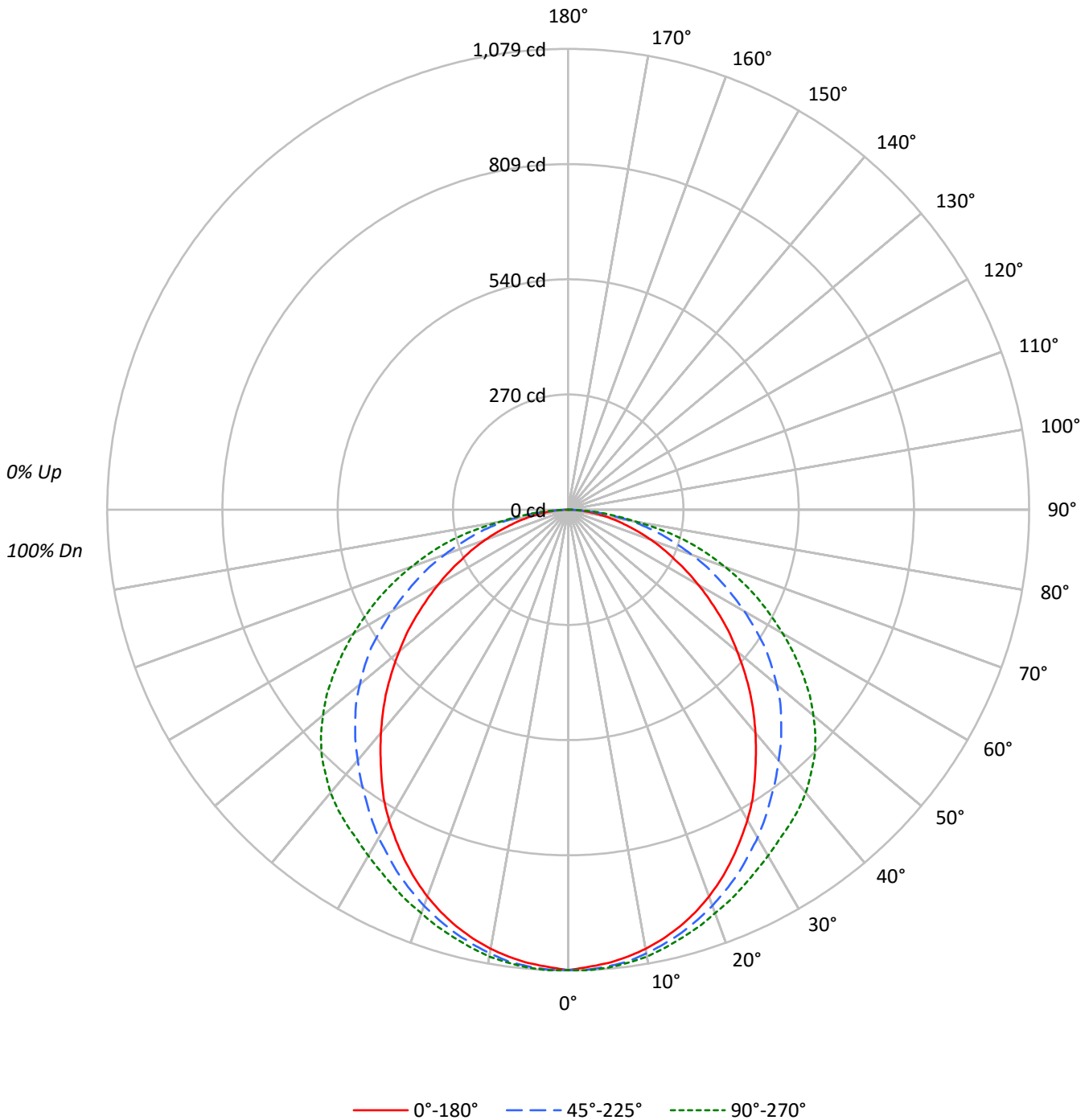
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2901	2901	2901
5°	2878	2899	2908
10°	2853	2882	2903
15°	2814	2857	2887
20°	2760	2826	2879
25°	2688	2793	2885
30°	2607	2755	2908
35°	2503	2715	2963
40°	2394	2692	3039
45°	2289	2682	3105
50°	2163	2666	3137
55°	2033	2641	3140
60°	1892	2565	3120
65°	1748	2494	3112
70°	1626	2415	3069
75°	1475	2357	3014
80°	1314	2270	2509
85°	1192	1809	2189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.8	3.3
10°-20°	289.0	9.4
20°-30°	432.9	14.1
30°-40°	519.7	17.0
40°-50°	544.6	17.8
50°-60°	496.1	16.2
60°-70°	383.0	12.5
70°-80°	232.5	7.6
80°-90°	65.2	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°	823.7	26.9
0°-40°	1343.4	43.8
0°-60°	2384.0	77.8
0°-90°	3064.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3064.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1066	1069	1073	1076	1076	101
15°	1010	1016	1026	1035	1036	285
25°	905	916	941	962	972	417
35°	762	780	826	880	902	477
45°	601	628	705	785	816	463
55°	433	469	563	640	669	388
65°	274	313	392	461	489	274
75°	142	170	227	274	290	151
85°	39	46	59	68	71	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1077.9	1077.9	1077.9	1077.9	1077.9
2.5°	1071.7	1073.3	1077.9	1079.4	1079.4
5°	1065.6	1068.6	1073.3	1076.4	1076.4
7.5°	1056.3	1059.4	1067.1	1070.2	1070.2
10°	1044.0	1048.6	1054.8	1060.9	1062.5
12.5°	1028.6	1033.2	1040.9	1048.6	1050.1
15°	1010.1	1016.2	1025.5	1034.7	1036.3
17.5°	988.5	994.6	1007.0	1019.3	1022.4
20°	963.8	970.0	986.9	1002.3	1005.4
22.5°	936.0	945.3	963.8	983.8	990.0
25°	905.2	916.0	940.7	962.2	971.5
27.5°	872.8	885.1	912.9	942.2	953.0
30°	838.9	851.2	886.7	920.6	936.0
32.5°	803.4	815.8	857.4	900.6	917.5
35°	761.8	780.3	826.5	880.5	902.1
37.5°	721.7	743.3	797.2	860.5	885.1
40°	681.6	704.7	766.4	837.3	865.1
42.5°	641.5	666.2	737.1	814.2	840.4
45°	601.4	627.6	704.7	784.9	815.8
47.5°	558.2	587.5	673.9	752.5	784.9
50°	516.6	549.0	636.9	720.1	749.4
52.5°	476.5	507.3	599.9	683.1	712.4
55°	433.3	468.8	562.9	640.0	669.3
57.5°	391.7	428.7	518.1	598.3	626.1
60°	351.6	387.1	476.5	553.6	579.8
62.5°	313.0	350.0	433.3	507.3	533.6
65°	274.5	313.0	391.7	461.1	488.8
67.5°	240.6	274.5	351.6	416.4	439.5
70°	206.6	235.9	306.9	368.6	390.1
72.5°	172.7	202.0	265.2	320.7	340.8
75°	141.9	169.6	226.7	274.5	289.9
77.5°	112.6	137.2	186.6	225.1	229.8
80°	84.8	104.9	146.5	163.5	161.9
82.5°	61.7	75.6	98.7	111.0	111.0
85°	38.6	46.3	58.6	67.9	70.9
87.5°	17.0	20.0	24.7	26.2	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)