

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: P220070

Luminaire Tested: **R3-WL-3L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220070
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-3L40-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: 3161.6 lumens
Efficiency: N/A
Efficacy: 123.5 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

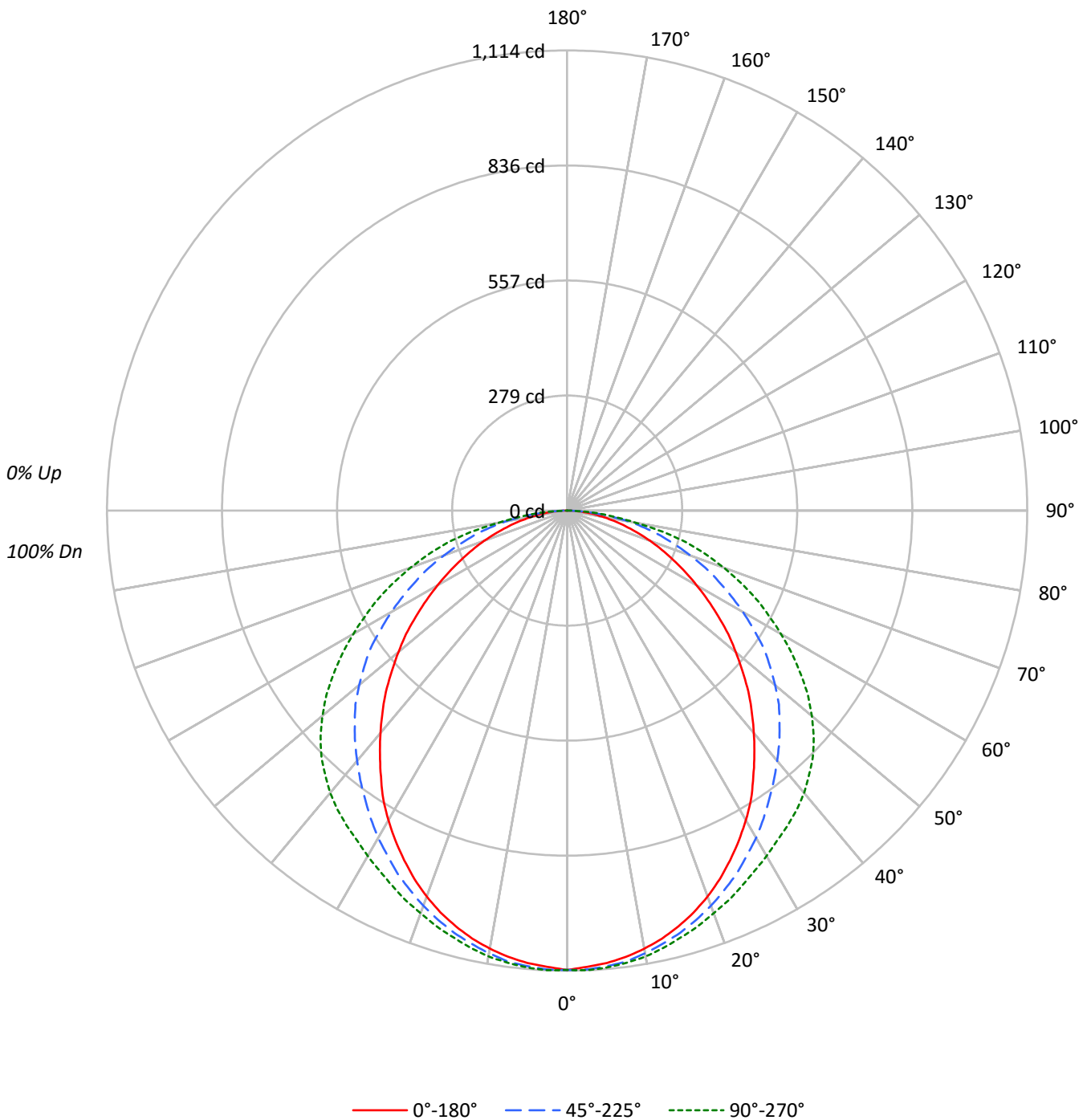
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2992	2992	2992
5°	2969	2991	2999
10°	2943	2973	2995
15°	2903	2947	2978
20°	2847	2916	2970
25°	2773	2881	2976
30°	2689	2842	3000
35°	2582	2801	3057
40°	2470	2777	3135
45°	2361	2767	3203
50°	2231	2750	3237
55°	2097	2724	3239
60°	1952	2646	3219
65°	1803	2573	3211
70°	1677	2491	3167
75°	1522	2432	3110
80°	1356	2342	2588
85°	1229	1868	2260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	3.3
10°-20°	298.2	9.4
20°-30°	446.6	14.1
30°-40°	536.1	17.0
40°-50°	561.8	17.8
50°-60°	511.8	16.2
60°-70°	395.1	12.5
70°-80°	239.8	7.6
80°-90°	67.3	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°	849.8	26.9
0°-40°	1385.9	43.8
0°-60°	2459.4	77.8
0°-90°	3161.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3161.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1099	1102	1107	1110	1110	104
15°	1042	1048	1058	1068	1069	294
25°	934	945	970	993	1002	430
35°	786	805	853	908	931	492
45°	620	648	727	810	842	478
55°	447	484	581	660	690	400
65°	283	323	404	476	504	283
75°	146	175	234	283	299	156
85°	40	48	60	70	73	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1112.0	1112.0	1112.0	1112.0	1112.0
2.5°	1105.6	1107.2	1112.0	1113.6	1113.6
5°	1099.3	1102.5	1107.2	1110.4	1110.4
7.5°	1089.7	1092.9	1100.9	1104.0	1104.0
10°	1077.0	1081.8	1088.1	1094.5	1096.1
12.5°	1061.1	1065.9	1073.8	1081.8	1083.4
15°	1042.0	1048.4	1057.9	1067.5	1069.0
17.5°	1019.7	1026.1	1038.8	1051.5	1054.7
20°	994.3	1000.6	1018.1	1034.0	1037.2
22.5°	965.6	975.2	994.3	1015.0	1021.3
25°	933.8	945.0	970.4	992.7	1002.2
27.5°	900.4	913.1	941.8	972.0	983.1
30°	865.4	878.1	914.7	949.7	965.6
32.5°	828.8	841.6	884.5	929.1	946.6
35°	785.9	805.0	852.7	908.4	930.6
37.5°	744.5	766.8	822.5	887.7	913.1
40°	703.2	727.0	790.6	863.8	892.5
42.5°	661.8	687.2	760.4	840.0	867.0
45°	620.4	647.5	727.0	809.7	841.6
47.5°	575.9	606.1	695.2	776.3	809.7
50°	532.9	566.3	657.0	742.9	773.1
52.5°	491.6	523.4	618.8	704.7	735.0
55°	447.0	483.6	580.7	660.2	690.4
57.5°	404.1	442.3	534.5	617.2	645.9
60°	362.7	399.3	491.6	571.1	598.2
62.5°	322.9	361.1	447.0	523.4	550.4
65°	283.2	322.9	404.1	475.7	504.3
67.5°	248.2	283.2	362.7	429.5	453.4
70°	213.2	243.4	316.6	380.2	402.5
72.5°	178.2	208.4	273.6	330.9	351.6
75°	146.4	175.0	233.9	283.2	299.1
77.5°	116.1	141.6	192.5	232.3	237.0
80°	87.5	108.2	151.1	168.6	167.0
82.5°	63.6	78.0	101.8	114.5	114.5
85°	39.8	47.7	60.5	70.0	73.2
87.5°	17.5	20.7	25.5	27.0	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)