

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: P219945

Luminaire Tested: **R3-WL-2L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35869)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-2L30-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2975.6 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

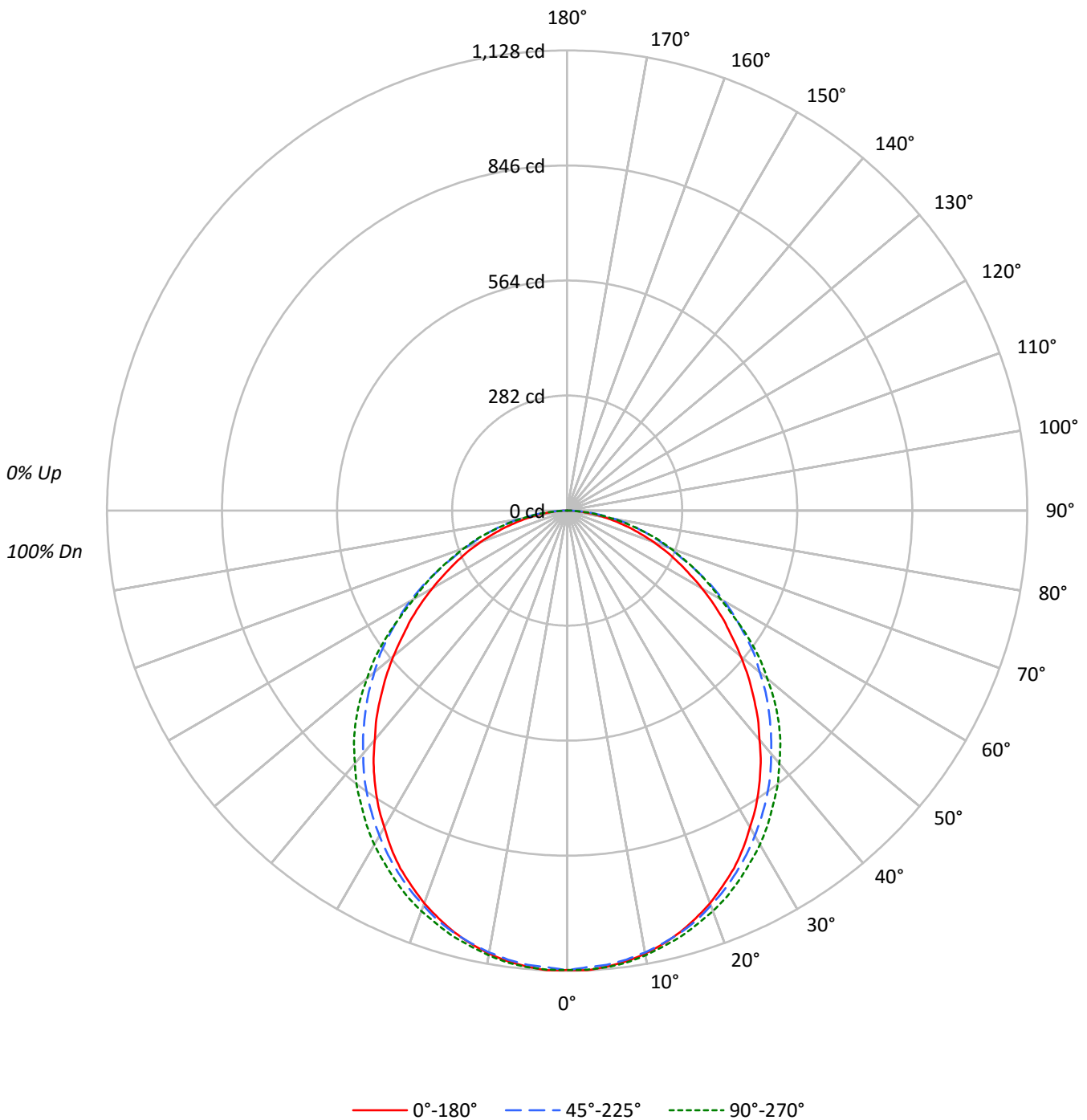
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3031	3031	3031
5°	3031	3019	3035
10°	3013	3005	3025
15°	2981	2985	3010
20°	2933	2950	2992
25°	2874	2909	2966
30°	2786	2860	2938
35°	2697	2804	2892
40°	2577	2733	2843
45°	2459	2662	2792
50°	2327	2581	2681
55°	2197	2496	2538
60°	2058	2393	2337
65°	1916	2227	2237
70°	1773	2076	2111
75°	1602	1972	1972
80°	1401	1838	1723
85°	1189	1510	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	3.6
10°-20°	303.0	10.2
20°-30°	452.6	15.2
30°-40°	533.3	17.9
40°-50°	535.8	18.0
50°-60°	463.5	15.6
60°-70°	335.3	11.3
70°-80°	192.7	6.5
80°-90°	52.9	1.8
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°	862.0	29.0
0°-40°	1395.3	46.9
0°-60°	2394.7	80.5
0°-90°	2975.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2975.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1122	1122	1118	1123	1123	107
15°	1070	1072	1072	1080	1080	301
25°	968	971	980	996	999	445
35°	821	832	854	876	880	513
45°	646	666	700	728	734	499
55°	468	491	532	548	541	419
65°	301	322	350	351	351	299
75°	154	170	190	196	190	164
85°	38	46	49	46	43	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1126.4	1126.4	1126.4	1126.4	1126.4
2.5°	1127.9	1126.4	1120.5	1126.4	1126.4
5°	1122.0	1122.0	1117.5	1123.4	1123.4
7.5°	1114.5	1113.1	1110.1	1116.0	1117.5
10°	1102.7	1102.7	1099.7	1107.1	1107.1
12.5°	1087.9	1087.9	1086.4	1095.3	1093.8
15°	1070.1	1071.6	1071.6	1080.5	1080.5
17.5°	1047.9	1050.8	1053.8	1064.2	1062.7
20°	1024.1	1027.1	1030.1	1043.4	1044.9
22.5°	996.0	1000.4	1006.4	1022.7	1024.1
25°	967.8	970.8	979.7	996.0	998.9
27.5°	933.7	939.7	951.5	970.8	972.3
30°	896.7	907.1	920.4	941.1	945.6
32.5°	861.1	870.0	887.8	910.0	914.5
35°	821.1	831.5	853.7	875.9	880.4
37.5°	779.6	790.0	818.1	841.8	847.8
40°	733.6	748.5	778.1	804.8	809.2
42.5°	692.1	705.5	739.6	766.3	773.7
45°	646.2	665.5	699.6	727.7	733.6
47.5°	601.7	619.5	659.5	686.2	689.2
50°	555.8	578.0	616.6	643.2	640.3
52.5°	509.8	533.6	578.0	594.3	594.3
55°	468.3	490.6	532.1	548.4	541.0
57.5°	425.4	449.1	489.1	499.5	484.6
60°	382.4	404.6	444.6	443.2	434.3
62.5°	339.4	363.1	398.7	395.7	392.8
65°	300.9	321.6	349.8	351.3	351.3
67.5°	263.8	284.6	303.8	311.2	306.8
70°	225.3	246.0	263.8	271.2	268.3
72.5°	188.2	210.5	225.3	234.2	231.2
75°	154.1	170.4	189.7	195.6	189.7
77.5°	120.1	136.4	154.1	157.1	151.2
80°	90.4	103.7	118.6	115.6	111.2
82.5°	63.7	74.1	83.0	78.6	75.6
85°	38.5	45.9	48.9	45.9	43.0
87.5°	16.3	19.3	19.3	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)