

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: P220082

Luminaire Tested: **R3-WG-4L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35854)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-4L35-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3314.5 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

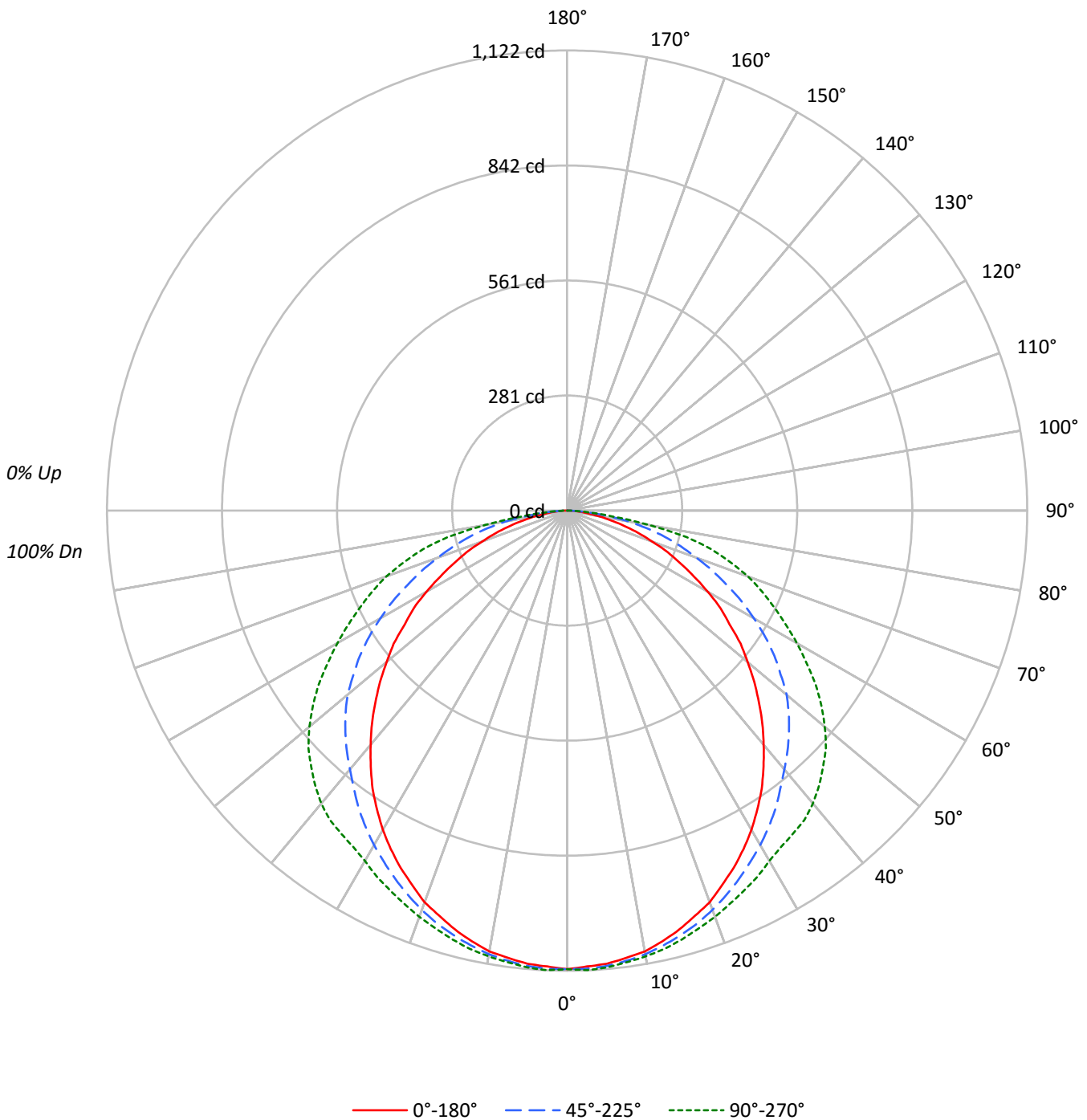
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3009	3009	3009
5°	2996	3010	3020
10°	2982	3001	3016
15°	2946	2985	3015
20°	2911	2967	3018
25°	2854	2944	3034
30°	2793	2925	3064
35°	2718	2911	3157
40°	2618	2894	3276
45°	2517	2911	3359
50°	2404	2926	3434
55°	2267	2895	3472
60°	2130	2831	3484
65°	1941	2736	3542
70°	1740	2637	3690
75°	1501	2559	3782
80°	1189	2349	3150
85°	880	1541	1707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	3.2
10°-20°	302.2	9.1
20°-30°	457.2	13.8
30°-40°	557.0	16.8
40°-50°	593.3	17.9
50°-60°	548.0	16.5
60°-70°	427.2	12.9
70°-80°	261.8	7.9
80°-90°	62.0	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°	865.2	26.1
0°-40°	1422.2	42.9
0°-60°	2563.5	77.3
0°-90°	3314.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3314.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1109	1111	1114	1116	1118	105
15°	1057	1061	1072	1081	1082	298
25°	961	970	991	1013	1022	442
35°	827	842	886	936	961	516
45°	662	688	765	852	883	510
55°	483	526	617	706	740	435
65°	305	348	430	515	556	304
75°	144	176	246	326	364	154
85°	28	39	50	59	55	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1118.0	1118.0	1118.0	1118.0	1118.0
2.5°	1112.7	1114.4	1118.0	1119.8	1121.6
5°	1109.1	1110.9	1114.4	1116.2	1118.0
7.5°	1100.2	1103.7	1107.3	1110.9	1110.9
10°	1091.3	1093.0	1098.4	1102.0	1103.7
12.5°	1075.2	1078.8	1085.9	1093.0	1094.8
15°	1057.4	1060.9	1071.6	1080.6	1082.3
17.5°	1036.0	1043.1	1055.6	1064.5	1068.1
20°	1016.4	1021.7	1036.0	1048.5	1053.8
22.5°	987.8	996.8	1014.6	1030.6	1037.8
25°	961.1	970.0	991.4	1012.8	1021.7
27.5°	930.8	941.5	966.4	996.8	1005.7
30°	898.7	909.4	941.5	975.4	986.1
32.5°	863.0	875.5	914.7	954.0	971.8
35°	827.4	841.6	886.2	936.1	961.1
37.5°	786.3	806.0	854.1	920.1	950.4
40°	745.3	766.7	823.8	904.0	932.6
42.5°	704.3	727.5	795.3	879.1	909.4
45°	661.5	688.3	765.0	852.3	882.6
47.5°	618.7	647.3	732.9	822.0	855.9
50°	574.2	606.3	699.0	786.3	820.2
52.5°	533.1	563.5	656.2	747.1	781.0
55°	483.2	526.0	617.0	706.1	740.0
57.5°	444.0	476.1	572.4	659.7	691.8
60°	395.8	431.5	526.0	611.6	647.3
62.5°	349.5	390.5	479.7	563.5	600.9
65°	304.9	347.7	429.7	515.3	556.3
67.5°	265.7	303.1	383.4	470.7	513.5
70°	221.1	256.8	335.2	424.4	469.0
72.5°	181.9	217.5	290.6	378.0	415.5
75°	144.4	176.5	246.1	326.3	363.8
77.5°	108.8	139.1	197.9	267.5	297.8
80°	76.7	103.4	151.6	192.6	203.3
82.5°	51.7	71.3	96.3	115.9	114.1
85°	28.5	39.2	49.9	58.8	55.3
87.5°	10.7	12.5	17.8	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)