

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: P220081

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220081
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-3L35-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: 2866.5 lumens
Efficiency: N/A
Efficacy: 112.0 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

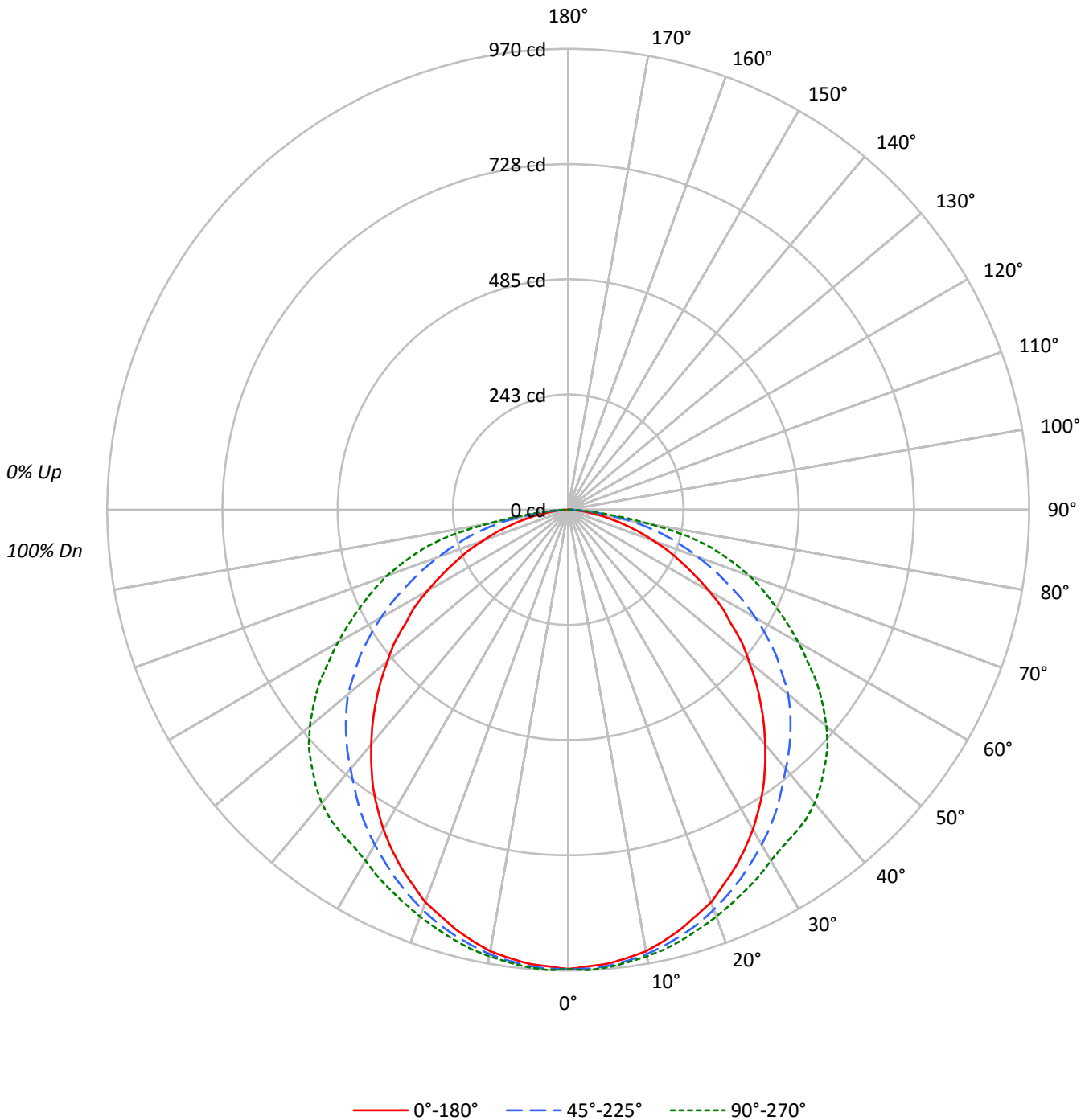
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2602	2602	2602
5°	2591	2603	2612
10°	2579	2596	2608
15°	2547	2582	2608
20°	2517	2566	2610
25°	2468	2546	2624
30°	2415	2530	2650
35°	2350	2518	2731
40°	2264	2503	2833
45°	2177	2517	2905
50°	2079	2531	2970
55°	1961	2503	3003
60°	1842	2448	3013
65°	1679	2366	3063
70°	1504	2281	3191
75°	1299	2213	3271
80°	1027	2032	2724
85°	763	1334	1476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	3.2
10°-20°	261.3	9.1
20°-30°	395.4	13.8
30°-40°	481.7	16.8
40°-50°	513.1	17.9
50°-60°	474.0	16.5
60°-70°	369.5	12.9
70°-80°	226.4	7.9
80°-90°	53.6	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°	748.2	26.1
0°-40°	1229.9	42.9
0°-60°	2217.0	77.3
0°-90°	2866.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2866.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	959	961	964	965	967	91
15°	914	918	927	934	936	258
25°	831	839	857	876	884	383
35°	716	728	766	810	831	446
45°	572	595	662	737	763	441
55°	418	455	534	611	640	376
65°	264	301	372	446	481	263
75°	125	153	213	282	315	133
85°	25	34	43	51	48	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.9	966.9	966.9	966.9	966.9
2.5°	962.2	963.8	966.9	968.4	970.0
5°	959.2	960.7	963.8	965.3	966.9
7.5°	951.5	954.5	957.6	960.7	960.7
10°	943.7	945.3	949.9	953.0	954.5
12.5°	929.9	933.0	939.1	945.3	946.8
15°	914.4	917.5	926.8	934.5	936.0
17.5°	895.9	902.1	912.9	920.6	923.7
20°	879.0	883.6	895.9	906.7	911.4
22.5°	854.3	862.0	877.4	891.3	897.5
25°	831.2	838.9	857.4	875.9	883.6
27.5°	805.0	814.2	835.8	862.0	869.7
30°	777.2	786.5	814.2	843.5	852.8
32.5°	746.4	757.2	791.1	825.0	840.4
35°	715.5	727.9	766.4	809.6	831.2
37.5°	680.1	697.0	738.6	795.7	821.9
40°	644.6	663.1	712.4	781.8	806.5
42.5°	609.1	629.2	687.8	760.2	786.5
45°	572.1	595.2	661.5	737.1	763.3
47.5°	535.1	559.8	633.8	710.9	740.2
50°	496.5	524.3	604.5	680.1	709.4
52.5°	461.1	487.3	567.5	646.1	675.4
55°	417.9	454.9	533.6	610.7	640.0
57.5°	384.0	411.7	495.0	570.6	598.3
60°	342.3	373.2	454.9	528.9	559.8
62.5°	302.2	337.7	414.8	487.3	519.7
65°	263.7	300.7	371.6	445.7	481.1
67.5°	229.8	262.2	331.5	407.1	444.1
70°	191.2	222.1	289.9	367.0	405.6
72.5°	157.3	188.1	251.4	326.9	359.3
75°	124.9	152.7	212.8	282.2	314.6
77.5°	94.1	120.3	171.2	231.3	257.5
80°	66.3	89.4	131.1	166.5	175.8
82.5°	44.7	61.7	83.3	100.2	98.7
85°	24.7	33.9	43.2	50.9	47.8
87.5°	9.3	10.8	15.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)