

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: P220149

Luminaire Tested: **Z3-WG-3L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35858)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-3L35-LD5-UNV-22
Description: CLASS Z3 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: 2825.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.34 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

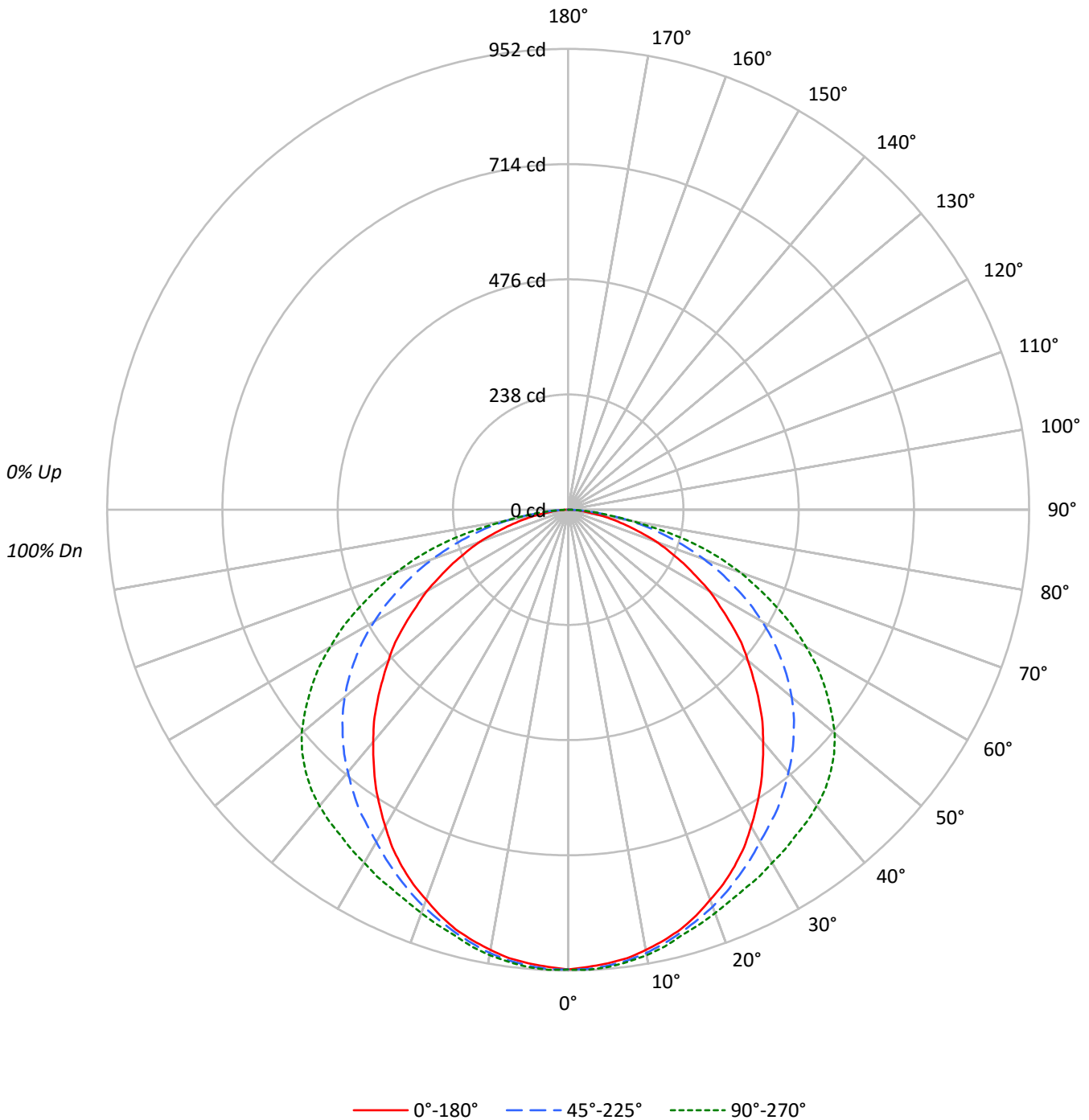
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	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	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2556	2556	2556
5°	2541	2553	2562
10°	2524	2541	2554
15°	2500	2518	2535
20°	2455	2499	2539
25°	2413	2477	2564
30°	2348	2463	2616
35°	2280	2477	2695
40°	2199	2486	2806
45°	2119	2506	2917
50°	2027	2524	3008
55°	1924	2518	3046
60°	1817	2490	3054
65°	1670	2425	3025
70°	1529	2341	2972
75°	1283	2197	2774
80°	1052	1959	2007
85°	763	1334	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	3.2
10°-20°	255.0	9.0
20°-30°	385.9	13.7
30°-40°	472.8	16.7
40°-50°	508.8	18.0
50°-60°	476.9	16.9
60°-70°	371.6	13.2
70°-80°	214.9	7.6
80°-90°	49.4	1.7
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°	730.6	25.9
0°-40°	1203.5	42.6
0°-60°	2189.2	77.5
0°-90°	2825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	941	942	945	947	948	89
15°	898	898	904	910	910	253
25°	813	817	834	854	864	374
35°	694	708	754	802	820	433
45°	557	583	658	736	766	429
55°	410	455	537	620	649	367
65°	262	307	381	450	475	260
75°	123	160	211	251	267	133
85°	25	37	43	45	43	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.9	949.9	949.9	949.9	949.9
2.5°	945.3	946.8	949.9	951.5	951.5
5°	940.7	942.2	945.3	946.8	948.4
7.5°	934.5	936.0	939.1	942.2	942.2
10°	923.7	925.2	929.9	933.0	934.5
12.5°	911.4	912.9	917.5	920.6	923.7
15°	897.5	897.5	903.7	909.8	909.8
17.5°	879.0	882.1	888.2	895.9	899.0
20°	857.4	862.0	872.8	882.1	886.7
22.5°	837.3	842.0	854.3	868.2	874.4
25°	812.7	817.3	834.3	854.3	863.6
27.5°	786.5	794.2	814.2	843.5	854.3
30°	755.6	764.9	792.6	829.6	842.0
32.5°	724.8	737.1	772.6	817.3	832.7
35°	693.9	707.8	754.1	801.9	820.4
37.5°	660.0	677.0	730.9	788.0	811.1
40°	626.1	644.6	707.8	772.6	798.8
42.5°	593.7	616.8	684.7	754.1	784.9
45°	556.7	582.9	658.5	735.6	766.4
47.5°	519.7	552.1	632.2	712.4	744.8
50°	484.2	518.1	602.9	686.2	718.6
52.5°	450.3	485.8	570.6	653.8	684.7
55°	410.2	454.9	536.6	619.9	649.2
57.5°	371.6	416.4	501.2	579.8	612.2
60°	337.7	376.3	462.6	538.2	567.5
62.5°	297.6	339.3	424.1	495.0	524.3
65°	262.2	306.9	380.9	450.3	475.0
67.5°	226.7	265.2	340.8	400.9	424.1
70°	194.3	229.8	297.6	353.1	377.8
72.5°	157.3	194.3	254.4	302.2	325.4
75°	123.4	160.4	211.3	251.4	266.8
77.5°	94.1	126.4	169.6	197.4	200.5
80°	67.9	92.5	126.4	134.2	129.5
82.5°	43.2	63.2	80.2	81.7	81.7
85°	24.7	37.0	43.2	44.7	43.2
87.5°	10.8	13.9	13.9	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)