

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: P220166

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35859)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-3L35-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2804.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.4 / 1.45
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

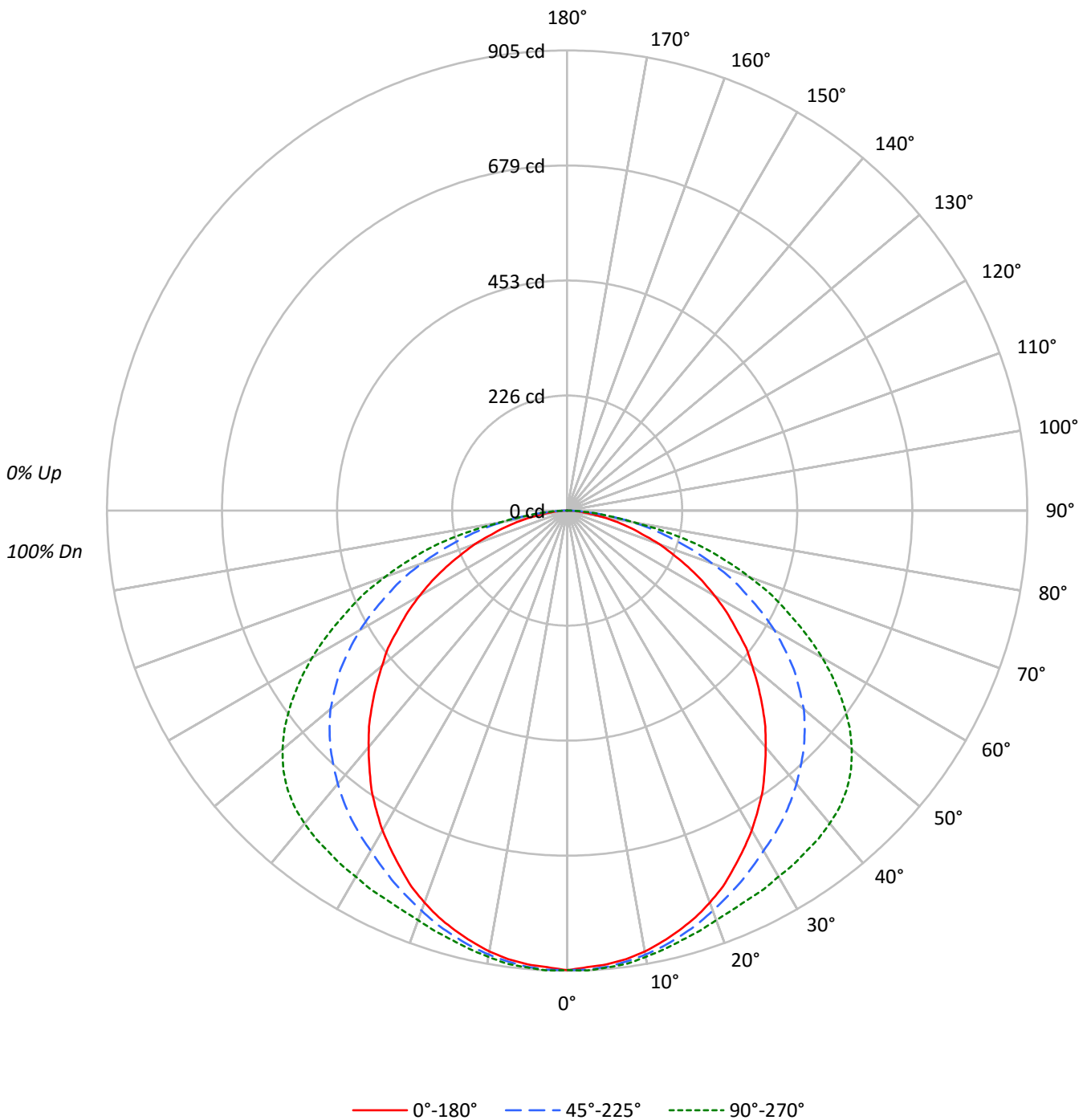
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2432	2432	2432
5°	2420	2433	2437
10°	2406	2423	2435
15°	2380	2410	2436
20°	2349	2398	2455
25°	2303	2395	2504
30°	2257	2401	2583
35°	2204	2432	2690
40°	2134	2465	2822
45°	2066	2506	2958
50°	1989	2544	3060
55°	1903	2554	3111
60°	1801	2531	3120
65°	1670	2474	3074
70°	1517	2390	2997
75°	1314	2228	2854
80°	1027	2007	2080
85°	763	1380	1476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	3.0
10°-20°	244.2	8.7
20°-30°	373.1	13.3
30°-40°	464.6	16.6
40°-50°	508.0	18.1
50°-60°	481.8	17.2
60°-70°	377.4	13.5
70°-80°	218.2	7.8
80°-90°	51.2	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°	702.8	25.1
0°-40°	1167.4	41.6
0°-60°	2157.2	76.9
0°-90°	2804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2804.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	896	898	901	902	902	85
15°	854	857	865	873	874	241
25°	776	783	806	833	844	357
35°	671	686	740	797	819	419
45°	543	575	658	743	777	419
55°	406	455	544	631	663	363
65°	262	308	389	458	483	260
75°	126	160	214	256	274	134
85°	25	36	45	48	48	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	903.7	903.7	903.7	903.7	903.7
2.5°	899.0	900.6	903.7	905.2	905.2
5°	895.9	897.5	900.6	902.1	902.1
7.5°	889.8	891.3	894.4	897.5	899.0
10°	880.5	882.1	886.7	891.3	891.3
12.5°	868.2	871.3	877.4	882.1	883.6
15°	854.3	857.4	865.1	872.8	874.4
17.5°	838.9	843.5	852.8	862.0	866.6
20°	820.4	823.5	837.3	851.2	857.4
22.5°	800.3	805.0	821.9	842.0	849.7
25°	775.7	783.4	806.5	832.7	843.5
27.5°	751.0	761.8	789.5	825.0	838.9
30°	726.3	737.1	772.6	815.8	831.2
32.5°	698.6	712.4	757.2	806.5	826.5
35°	670.8	686.2	740.2	797.2	818.8
37.5°	638.4	658.5	721.7	786.5	812.7
40°	607.6	629.2	701.6	774.1	803.4
42.5°	576.7	601.4	680.1	760.2	792.6
45°	542.8	575.2	658.5	743.3	777.2
47.5°	508.9	545.9	633.8	723.2	757.2
50°	475.0	513.5	607.6	698.6	730.9
52.5°	444.1	482.7	575.2	666.2	700.1
55°	405.6	454.9	544.4	630.7	663.1
57.5°	371.6	416.4	507.3	592.2	623.0
60°	334.6	379.3	470.3	550.5	579.8
62.5°	299.2	342.3	430.2	505.8	532.0
65°	262.2	308.4	388.6	458.0	482.7
67.5°	225.1	268.3	350.0	410.2	436.4
70°	192.8	232.9	303.8	359.3	380.9
72.5°	155.7	194.3	259.1	308.4	326.9
75°	126.4	160.4	214.3	256.0	274.5
77.5°	95.6	128.0	172.7	200.5	208.2
80°	66.3	94.1	129.5	140.3	134.2
82.5°	43.2	64.8	83.3	86.4	84.8
85°	24.7	35.5	44.7	47.8	47.8
87.5°	10.8	13.9	15.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)