

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: P220034

Luminaire Tested: **Z3-WD-2L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35875)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-2L35-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2657.5 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

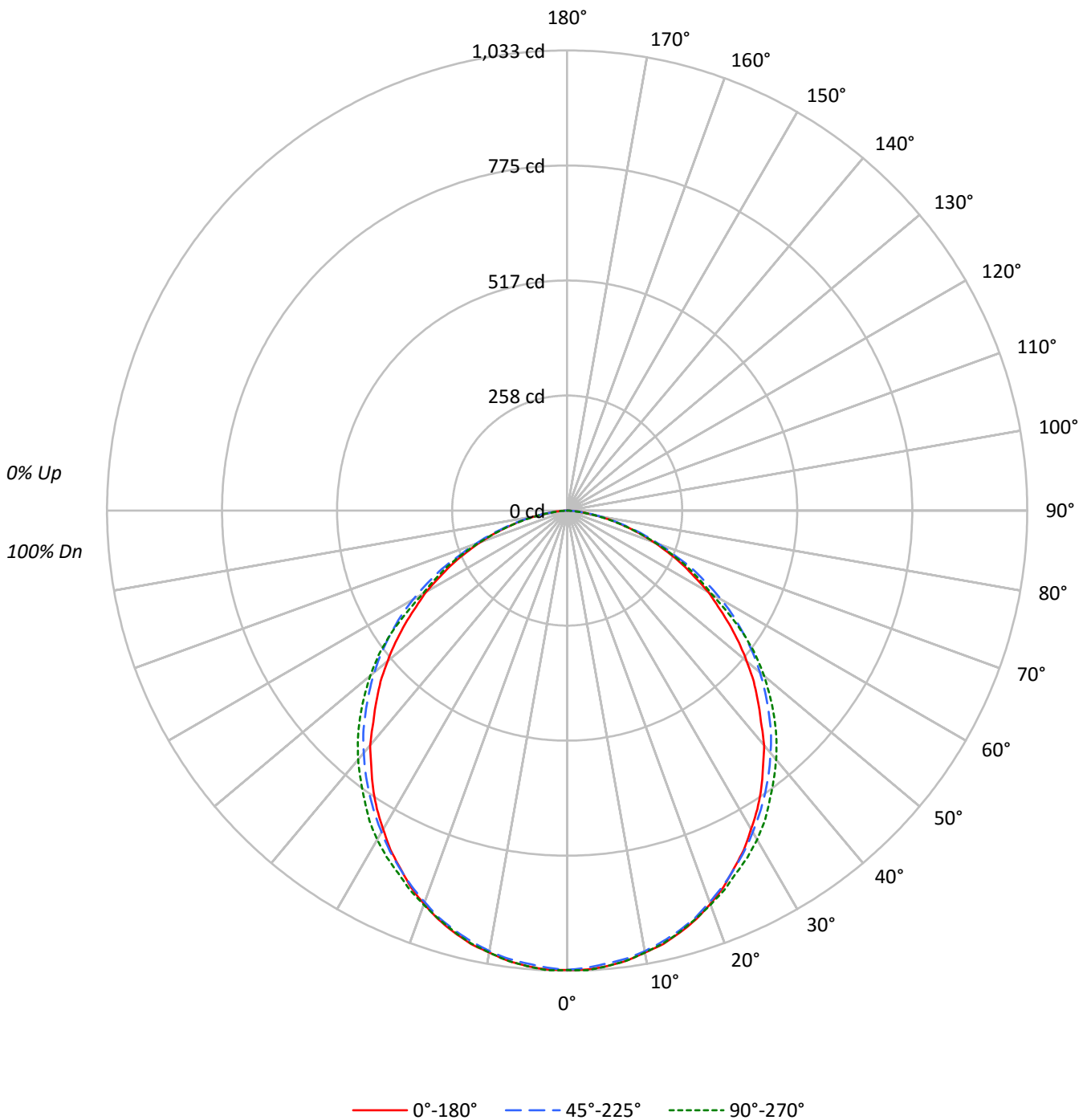
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2775	2775	2775
5°	2774	2757	2774
10°	2752	2744	2752
15°	2731	2718	2727
20°	2691	2678	2696
25°	2630	2635	2666
30°	2566	2590	2650
35°	2497	2546	2605
40°	2417	2496	2564
45°	2305	2436	2504
50°	2202	2366	2416
55°	2082	2272	2272
60°	1968	2154	2017
65°	1813	1976	1880
70°	1628	1721	1651
75°	1387	1465	1387
80°	1091	1137	1069
85°	695	695	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	3.7
10°-20°	275.8	10.4
20°-30°	410.6	15.4
30°-40°	485.3	18.3
40°-50°	490.1	18.4
50°-60°	423.7	15.9
60°-70°	295.8	11.1
70°-80°	149.2	5.6
80°-90°	29.7	1.1
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°	783.6	29.5
0°-40°	1269.0	47.8
0°-60°	2182.8	82.1
0°-90°	2657.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2657.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1027	1025	1021	1027	1027	97
15°	980	979	976	979	979	276
25°	886	887	887	896	898	408
35°	760	763	775	790	793	475
45°	606	615	640	656	658	468
55°	444	463	484	490	484	397
65°	285	303	310	294	295	281
75°	133	147	141	136	133	144
85°	22	26	22	20	18	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1031.3	1031.3	1031.3	1031.3	1031.3
2.5°	1031.3	1031.3	1026.8	1032.8	1032.8
5°	1026.8	1025.3	1020.8	1026.8	1026.8
7.5°	1019.3	1017.8	1014.8	1019.3	1019.3
10°	1007.3	1007.3	1004.3	1008.8	1007.3
12.5°	996.8	995.3	990.8	995.3	995.3
15°	980.3	978.8	975.8	978.8	978.8
17.5°	962.3	959.3	957.8	960.8	960.8
20°	939.8	938.3	935.3	941.3	941.3
22.5°	915.8	912.8	912.8	918.8	921.8
25°	885.9	887.4	887.4	896.4	897.9
27.5°	858.9	858.9	861.9	872.4	876.9
30°	825.9	828.9	833.4	846.9	852.9
32.5°	794.4	798.9	804.9	821.4	825.9
35°	760.0	763.0	774.9	789.9	792.9
37.5°	722.5	725.5	743.5	760.0	761.5
40°	688.0	689.5	710.5	725.5	730.0
42.5°	644.5	655.0	677.5	692.5	695.5
45°	605.6	614.6	640.0	656.5	658.0
47.5°	568.1	577.1	602.6	616.1	617.6
50°	526.1	538.1	565.1	575.6	577.1
52.5°	485.7	500.6	526.1	535.1	533.6
55°	443.7	463.2	484.2	490.1	484.2
57.5°	401.7	424.2	443.7	442.2	428.7
60°	365.7	382.2	400.2	386.7	374.7
62.5°	322.3	343.3	353.7	335.8	334.3
65°	284.8	302.8	310.3	293.8	295.3
67.5°	244.3	262.3	259.3	254.8	251.8
70°	206.9	224.8	218.8	212.8	209.8
72.5°	170.9	185.9	179.9	175.4	170.9
75°	133.4	146.9	140.9	136.4	133.4
77.5°	101.9	109.4	106.4	101.9	98.9
80°	70.4	77.9	73.4	69.0	69.0
82.5°	43.5	49.5	45.0	42.0	40.5
85°	22.5	25.5	22.5	19.5	18.0
87.5°	9.0	9.0	6.0	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)