

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: P220048

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35876)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-2L35-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2823.6 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

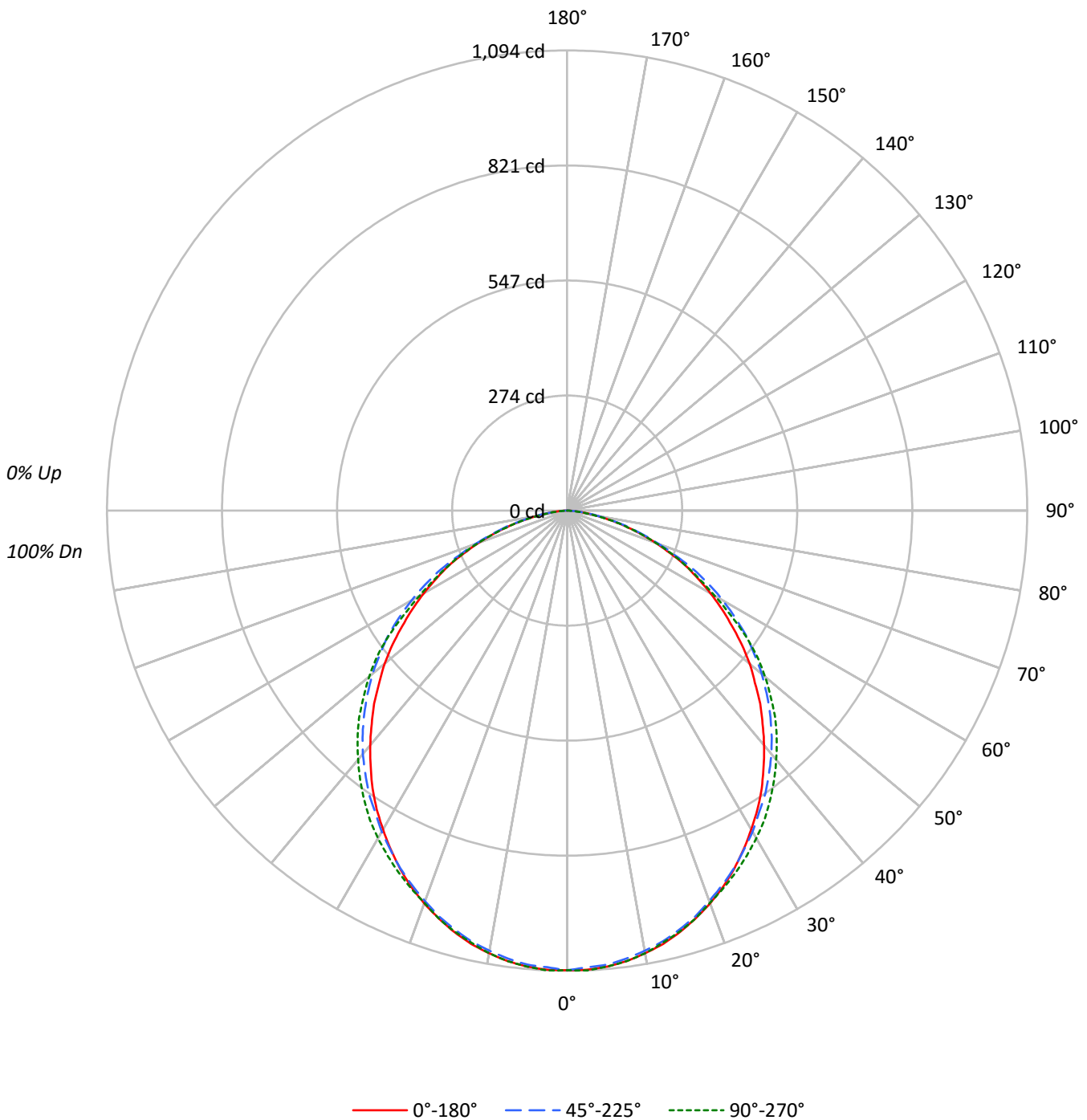
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	64	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	42	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	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2940	2940	2940
5°	2940	2927	2940
10°	2920	2904	2920
15°	2890	2873	2886
20°	2846	2829	2842
25°	2790	2786	2817
30°	2720	2739	2795
35°	2649	2698	2762
40°	2559	2654	2717
45°	2470	2595	2664
50°	2372	2529	2573
55°	2244	2440	2426
60°	2122	2299	2178
65°	1985	2110	1995
70°	1757	1816	1769
75°	1481	1559	1481
80°	1137	1184	1069
85°	695	695	602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	3.7
10°-20°	291.8	10.3
20°-30°	434.1	15.4
30°-40°	514.2	18.2
40°-50°	521.9	18.5
50°-60°	454.1	16.1
60°-70°	317.4	11.2
70°-80°	156.8	5.6
80°-90°	30.2	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°	829.0	29.4
0°-40°	1343.2	47.6
0°-60°	2319.2	82.1
0°-90°	2823.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2823.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1088	1088	1084	1090	1088	103
15°	1037	1037	1031	1037	1036	292
25°	940	940	938	946	949	432
35°	806	808	821	838	841	504
45°	649	656	682	696	700	500
55°	478	499	520	522	517	429
65°	312	325	331	316	313	306
75°	142	153	150	142	142	152
85°	22	26	22	21	20	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.7	1092.7	1092.7	1092.7	1092.7
2.5°	1092.7	1092.7	1086.7	1092.7	1094.2
5°	1088.2	1088.2	1083.7	1089.7	1088.2
7.5°	1080.7	1079.2	1074.7	1079.2	1080.7
10°	1068.7	1067.2	1062.7	1068.7	1068.7
12.5°	1055.2	1053.7	1049.2	1053.7	1052.2
15°	1037.3	1037.3	1031.3	1037.3	1035.8
17.5°	1016.3	1016.3	1011.8	1014.8	1016.3
20°	993.8	993.8	987.8	995.3	992.3
22.5°	968.3	968.3	963.8	971.3	971.3
25°	939.8	939.8	938.3	945.8	948.8
27.5°	908.3	909.8	909.8	921.8	924.8
30°	875.4	876.9	881.4	896.4	899.4
32.5°	842.4	843.9	849.9	867.9	872.4
35°	806.4	807.9	821.4	837.9	840.9
37.5°	767.4	771.9	788.4	804.9	807.9
40°	728.5	733.0	755.5	768.9	773.4
42.5°	688.0	697.0	719.5	733.0	737.5
45°	649.0	656.5	682.0	695.5	700.0
47.5°	605.6	616.1	643.0	656.5	656.5
50°	566.6	578.6	604.1	614.6	614.6
52.5°	523.1	539.6	560.6	572.6	569.6
55°	478.2	499.1	520.1	521.6	517.1
57.5°	436.2	455.7	473.7	472.2	458.7
60°	394.2	410.7	427.2	415.2	404.7
62.5°	350.7	368.7	380.7	361.2	356.7
65°	311.8	325.3	331.3	316.3	313.3
67.5°	265.3	281.8	277.3	272.8	269.8
70°	223.3	236.8	230.8	226.3	224.8
72.5°	181.4	194.9	188.9	185.9	181.4
75°	142.4	152.9	149.9	142.4	142.4
77.5°	104.9	113.9	109.4	106.4	104.9
80°	73.4	77.9	76.4	71.9	69.0
82.5°	43.5	49.5	46.5	43.5	42.0
85°	22.5	25.5	22.5	21.0	19.5
87.5°	7.5	7.5	6.0	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)