

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: P220039

Luminaire Tested: **Z3-WD-2L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220039
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-2L40-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2808.1 lumens
Efficiency: N/A
Efficacy: 118.0 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

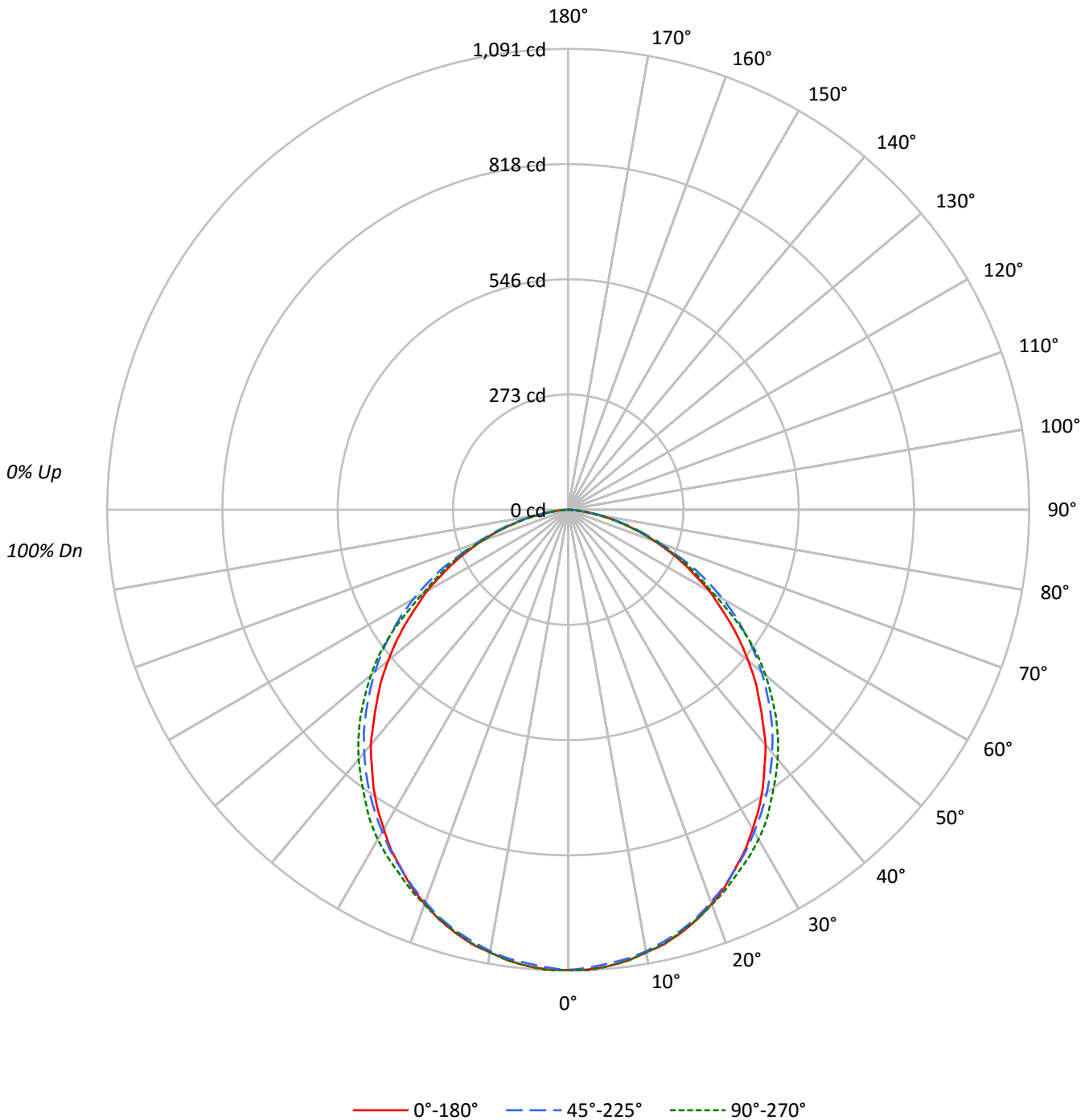
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2932	2932	2932
5°	2931	2914	2931
10°	2908	2900	2908
15°	2886	2873	2881
20°	2844	2830	2849
25°	2779	2784	2817
30°	2712	2736	2800
35°	2638	2690	2753
40°	2554	2637	2710
45°	2435	2574	2646
50°	2327	2500	2553
55°	2199	2400	2400
60°	2080	2276	2131
65°	1916	2088	1987
70°	1720	1819	1744
75°	1466	1548	1466
80°	1153	1203	1130
85°	735	735	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	3.7
10°-20°	291.4	10.4
20°-30°	433.8	15.4
30°-40°	512.9	18.3
40°-50°	517.9	18.4
50°-60°	447.7	15.9
60°-70°	312.5	11.1
70°-80°	157.7	5.6
80°-90°	31.4	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°	828.0	29.5
0°-40°	1340.9	47.8
0°-60°	2306.5	82.1
0°-90°	2808.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2808.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1085	1083	1079	1085	1085	103
15°	1036	1034	1031	1034	1034	292
25°	936	938	938	947	949	432
35°	803	806	819	835	838	502
45°	640	649	676	694	695	494
55°	469	489	512	518	512	420
65°	301	320	328	310	312	297
75°	141	155	149	144	141	152
85°	24	27	24	21	19	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.7	1089.7	1089.7	1089.7	1089.7
2.5°	1089.7	1089.7	1085.0	1091.3	1091.3
5°	1085.0	1083.4	1078.6	1085.0	1085.0
7.5°	1077.0	1075.5	1072.3	1077.0	1077.0
10°	1064.4	1064.4	1061.2	1066.0	1064.4
12.5°	1053.3	1051.7	1046.9	1051.7	1051.7
15°	1035.9	1034.3	1031.1	1034.3	1034.3
17.5°	1016.9	1013.7	1012.1	1015.3	1015.3
20°	993.1	991.5	988.3	994.7	994.7
22.5°	967.8	964.6	964.6	970.9	974.1
25°	936.1	937.7	937.7	947.2	948.7
27.5°	907.6	907.6	910.7	921.8	926.6
30°	872.7	875.9	880.6	894.9	901.2
32.5°	839.5	844.2	850.5	868.0	872.7
35°	803.0	806.2	818.9	834.7	837.9
37.5°	763.4	766.6	785.6	803.0	804.6
40°	727.0	728.6	750.8	766.6	771.4
42.5°	681.1	692.2	715.9	731.8	734.9
45°	639.9	649.4	676.3	693.7	695.3
47.5°	600.3	609.8	636.7	651.0	652.6
50°	555.9	568.6	597.1	608.2	609.8
52.5°	513.2	529.0	555.9	565.4	563.9
55°	468.8	489.4	511.6	517.9	511.6
57.5°	424.5	448.2	468.8	467.2	453.0
60°	386.5	403.9	422.9	408.6	396.0
62.5°	340.5	362.7	373.8	354.8	353.2
65°	300.9	319.9	327.9	310.4	312.0
67.5°	258.2	277.2	274.0	269.3	266.1
70°	218.6	237.6	231.2	224.9	221.7
72.5°	180.6	196.4	190.1	185.3	180.6
75°	141.0	155.2	148.9	144.1	141.0
77.5°	107.7	115.6	112.5	107.7	104.5
80°	74.4	82.4	77.6	72.9	72.9
82.5°	45.9	52.3	47.5	44.3	42.8
85°	23.8	26.9	23.8	20.6	19.0
87.5°	9.5	9.5	6.3	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)