

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: P220053

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220053
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-2L40-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2983.6 lumens
Efficiency: N/A
Efficacy: 125.4 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

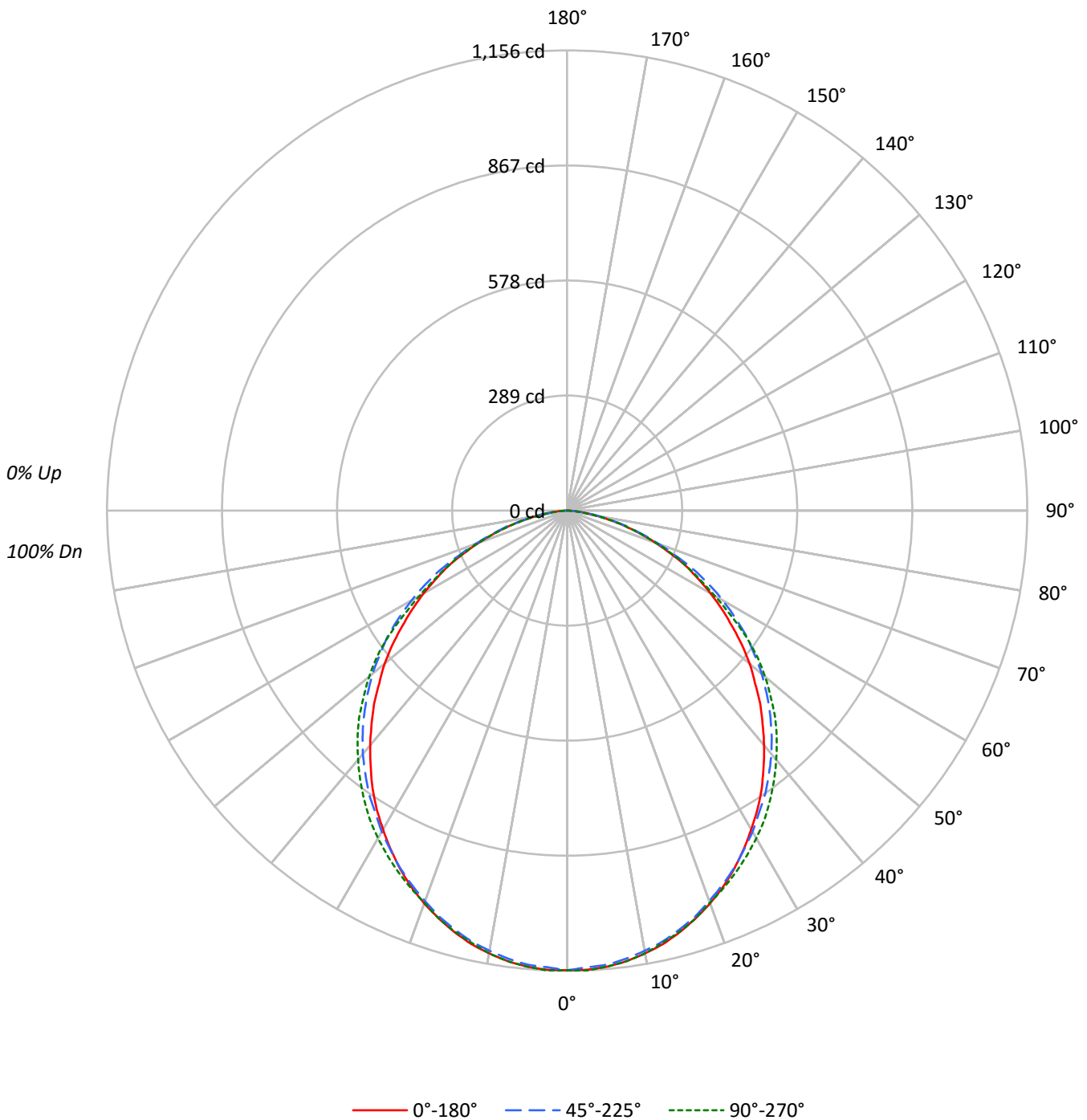
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3107	3107	3107
5°	3106	3093	3106
10°	3086	3069	3086
15°	3053	3036	3049
20°	3007	2989	3003
25°	2949	2944	2977
30°	2874	2894	2953
35°	2799	2851	2919
40°	2704	2804	2871
45°	2610	2743	2815
50°	2506	2672	2719
55°	2371	2578	2563
60°	2242	2429	2301
65°	2097	2229	2108
70°	1857	1919	1869
75°	1565	1647	1565
80°	1203	1252	1130
85°	735	735	636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.7
10°-20°	308.3	10.3
20°-30°	458.7	15.4
30°-40°	543.3	18.2
40°-50°	551.4	18.5
50°-60°	479.8	16.1
60°-70°	335.4	11.2
70°-80°	165.7	5.6
80°-90°	31.9	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°	876.0	29.4
0°-40°	1419.3	47.6
0°-60°	2450.6	82.1
0°-90°	2983.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2983.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1150	1150	1145	1152	1150	109
15°	1096	1096	1090	1096	1094	309
25°	993	993	992	999	1003	457
35°	852	854	868	885	889	532
45°	686	694	721	735	740	528
55°	505	527	550	551	546	453
65°	329	344	350	334	331	323
75°	150	162	158	150	150	161
85°	24	27	24	22	21	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.7	1154.7	1154.7	1154.7	1154.7
2.5°	1154.7	1154.7	1148.3	1154.7	1156.2
5°	1149.9	1149.9	1145.1	1151.5	1149.9
7.5°	1142.0	1140.4	1135.6	1140.4	1142.0
10°	1129.3	1127.7	1123.0	1129.3	1129.3
12.5°	1115.1	1113.5	1108.7	1113.5	1111.9
15°	1096.0	1096.0	1089.7	1096.0	1094.5
17.5°	1073.9	1073.9	1069.1	1072.3	1073.9
20°	1050.1	1050.1	1043.8	1051.7	1048.5
22.5°	1023.2	1023.2	1018.4	1026.4	1026.4
25°	993.1	993.1	991.5	999.4	1002.6
27.5°	959.8	961.4	961.4	974.1	977.3
30°	925.0	926.6	931.3	947.2	950.3
32.5°	890.1	891.7	898.1	917.1	921.8
35°	852.1	853.7	868.0	885.4	888.6
37.5°	810.9	815.7	833.1	850.5	853.7
40°	769.8	774.5	798.3	812.5	817.3
42.5°	727.0	736.5	760.3	774.5	779.3
45°	685.8	693.7	720.7	734.9	739.7
47.5°	639.9	651.0	679.5	693.7	693.7
50°	598.7	611.4	638.3	649.4	649.4
52.5°	552.8	570.2	592.4	605.0	601.9
55°	505.3	527.4	549.6	551.2	546.4
57.5°	460.9	481.5	500.5	498.9	484.7
60°	416.6	434.0	451.4	438.7	427.6
62.5°	370.6	389.6	402.3	381.7	377.0
65°	329.4	343.7	350.0	334.2	331.0
67.5°	280.3	297.8	293.0	288.3	285.1
70°	236.0	250.3	243.9	239.2	237.6
72.5°	191.6	205.9	199.6	196.4	191.6
75°	150.5	161.6	158.4	150.5	150.5
77.5°	110.9	120.4	115.6	112.5	110.9
80°	77.6	82.4	80.8	76.0	72.9
82.5°	45.9	52.3	49.1	45.9	44.3
85°	23.8	26.9	23.8	22.2	20.6
87.5°	7.9	7.9	6.3	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)