

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: P220001

Luminaire Tested: **Z3-WL-2L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35873)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-2L30-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2964.9 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.31
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

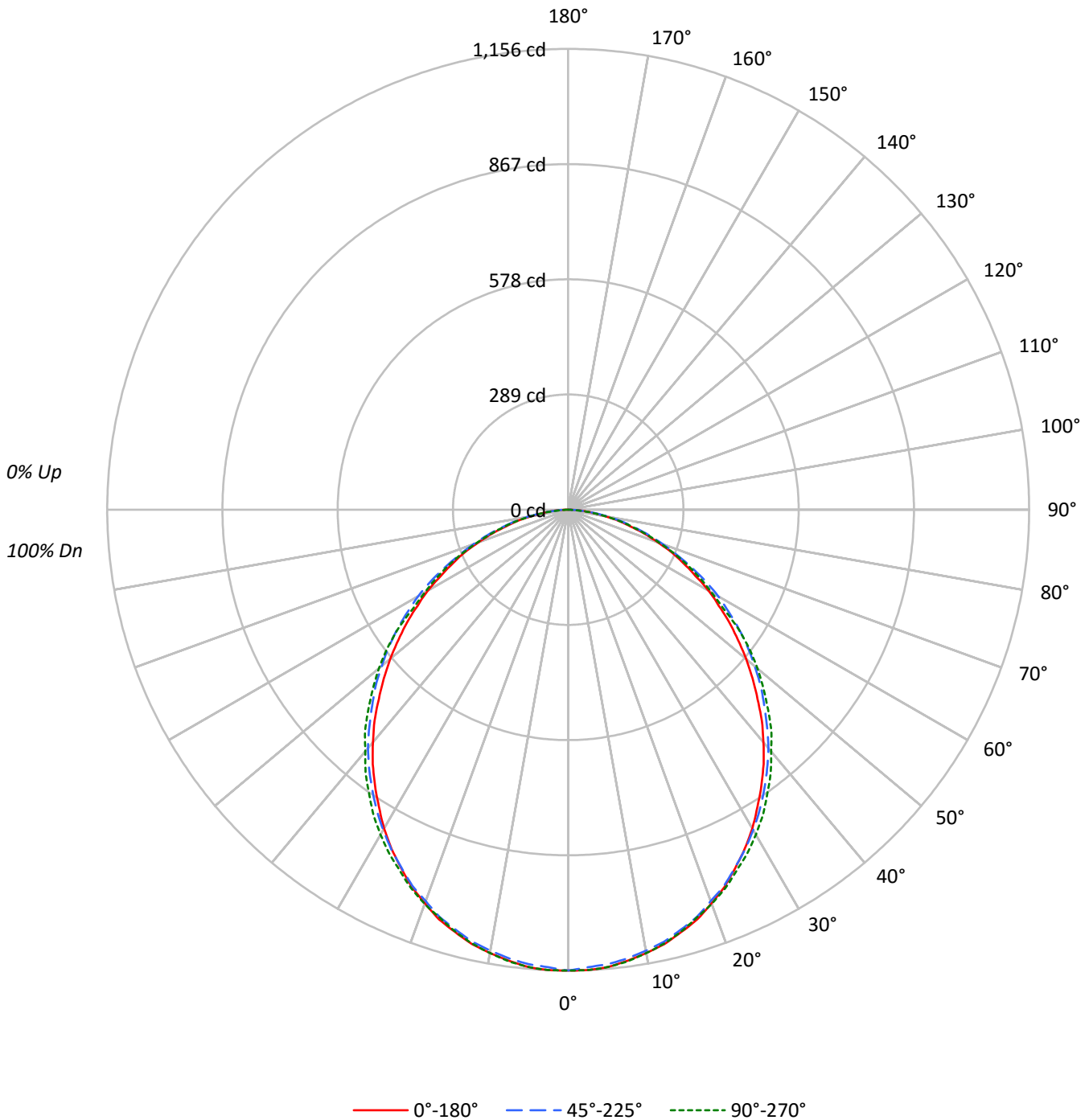
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	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°	3111	3111	3111
5°	3111	3091	3111
10°	3086	3070	3086
15°	3056	3039	3051
20°	3009	2992	3013
25°	2944	2939	2966
30°	2869	2883	2924
35°	2775	2814	2858
40°	2676	2744	2780
45°	2555	2645	2696
50°	2439	2556	2593
55°	2315	2455	2441
60°	2194	2337	2234
65°	2038	2161	2104
70°	1877	1983	1924
75°	1679	1787	1742
80°	1471	1585	1492
85°	1235	1189	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.7
10°-20°	308.7	10.4
20°-30°	458.0	15.4
30°-40°	536.4	18.1
40°-50°	535.3	18.1
50°-60°	460.1	15.5
60°-70°	330.2	11.1
70°-80°	181.5	6.1
80°-90°	45.7	1.5
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°	875.7	29.5
0°-40°	1412.2	47.6
0°-60°	2407.5	81.2
0°-90°	2964.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2964.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1152	1150	1144	1152	1152	109
15°	1097	1095	1091	1097	1095	309
25°	992	992	990	999	999	457
35°	845	848	857	868	870	528
45°	671	679	695	708	708	519
55°	494	507	523	526	520	441
65°	320	335	339	334	330	318
75°	162	173	172	172	168	173
85°	40	42	38	34	36	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.0	1156.0	1156.0	1156.0	1156.0
2.5°	1156.0	1154.6	1148.6	1156.0	1156.0
5°	1151.6	1150.1	1144.2	1151.6	1151.6
7.5°	1141.2	1141.2	1135.3	1141.2	1142.7
10°	1129.4	1129.4	1123.4	1130.8	1129.4
12.5°	1116.0	1113.1	1110.1	1116.0	1114.5
15°	1096.8	1095.3	1090.8	1096.8	1095.3
17.5°	1077.5	1074.5	1071.6	1076.0	1073.0
20°	1050.8	1049.3	1044.9	1052.3	1052.3
22.5°	1024.1	1022.7	1021.2	1027.1	1028.6
25°	991.5	991.5	990.0	998.9	998.9
27.5°	958.9	958.9	960.4	970.8	972.3
30°	923.4	923.4	927.8	939.7	941.1
32.5°	883.3	886.3	893.7	907.1	908.5
35°	844.8	847.8	856.7	868.5	870.0
37.5°	804.8	807.7	819.6	831.5	834.4
40°	761.8	764.8	781.1	791.4	791.4
42.5°	718.8	723.3	738.1	751.4	754.4
45°	671.4	678.8	695.1	708.4	708.4
47.5°	626.9	637.3	655.1	666.9	664.0
50°	582.5	592.8	610.6	621.0	619.5
52.5°	536.5	548.4	567.6	575.1	572.1
55°	493.5	506.9	523.2	526.1	520.2
57.5°	447.6	462.4	477.2	477.2	460.9
60°	407.6	419.4	434.3	418.0	415.0
62.5°	360.2	377.9	388.3	373.5	373.5
65°	320.1	335.0	339.4	333.5	330.5
67.5°	281.6	293.5	293.5	290.5	289.0
70°	238.6	252.0	252.0	247.5	244.5
72.5°	200.1	213.4	211.9	211.9	206.0
75°	161.5	173.4	171.9	171.9	167.5
77.5°	128.9	134.9	137.8	133.4	131.9
80°	94.9	100.8	102.3	97.8	96.3
82.5°	63.7	69.7	69.7	66.7	63.7
85°	40.0	41.5	38.5	34.1	35.6
87.5°	17.8	16.3	13.3	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)