

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: P220127

Luminaire Tested: **Z3-WL-4L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35857)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-4L30-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3355.7 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

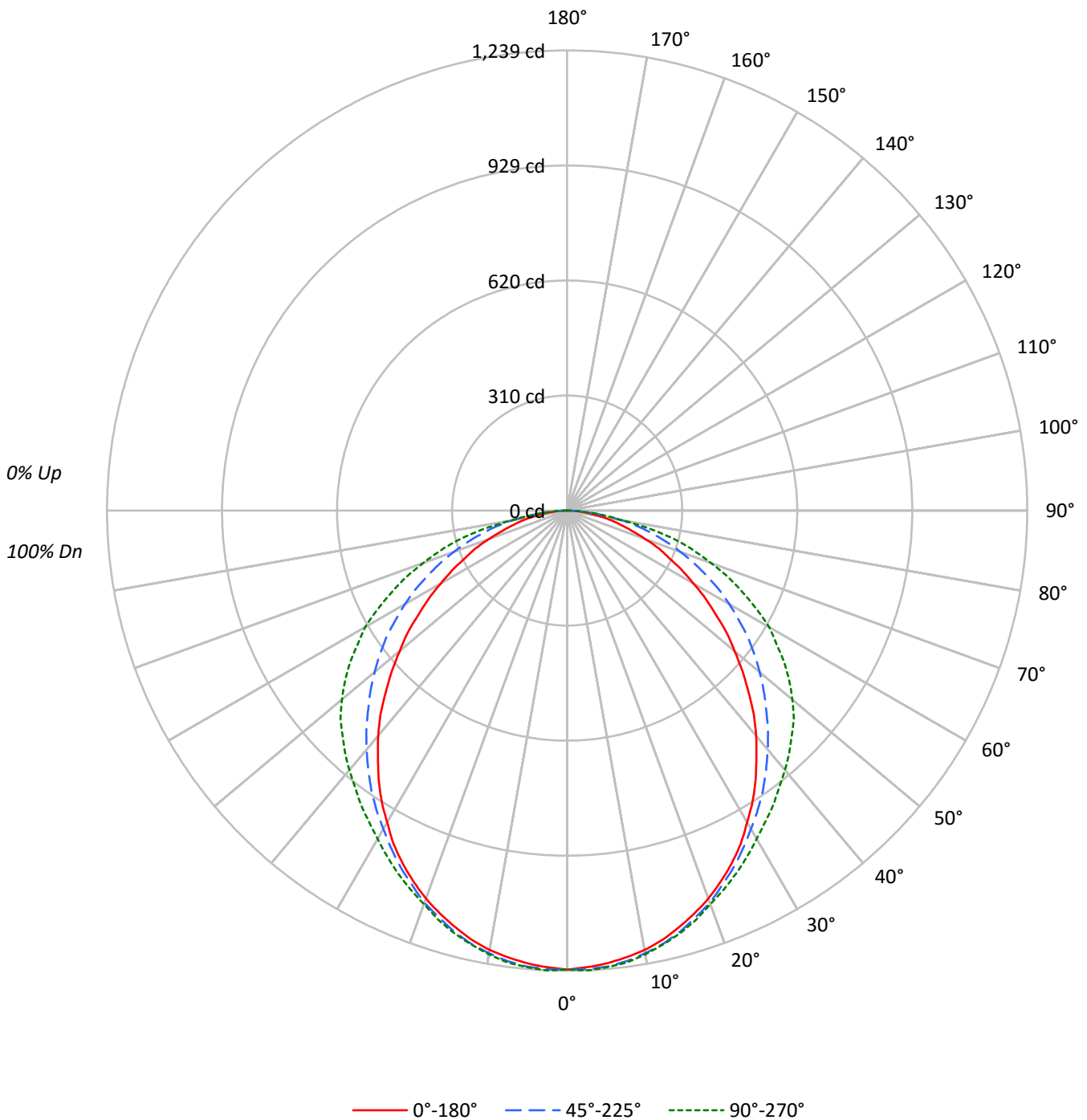
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3326	3326	3326
5°	3306	3329	3334
10°	3283	3307	3316
15°	3237	3270	3280
20°	3184	3219	3229
25°	3113	3148	3199
30°	3011	3076	3172
35°	2907	3020	3178
40°	2781	2951	3205
45°	2627	2882	3256
50°	2465	2832	3315
55°	2294	2786	3351
60°	2112	2714	3381
65°	1929	2630	3321
70°	1761	2546	3237
75°	1575	2452	3132
80°	1387	2294	2348
85°	1223	1806	1754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	3.5
10°-20°	330.1	9.8
20°-30°	489.0	14.6
30°-40°	576.5	17.2
40°-50°	591.1	17.6
50°-60°	534.4	15.9
60°-70°	410.9	12.2
70°-80°	243.5	7.3
80°-90°	63.3	1.9
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°	935.9	27.9
0°-40°	1512.4	45.1
0°-60°	2638.0	78.6
0°-90°	3355.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3355.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1224	1227	1232	1234	1234	116
15°	1162	1165	1174	1177	1177	328
25°	1048	1052	1060	1072	1078	482
35°	885	890	919	952	967	552
45°	690	704	757	826	856	533
55°	489	523	594	676	714	439
65°	303	341	413	492	522	304
75°	152	181	236	286	301	162
85°	40	48	58	62	57	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.9	1235.9	1235.9	1235.9	1235.9
2.5°	1230.7	1232.5	1235.9	1239.3	1239.3
5°	1223.8	1227.3	1232.5	1234.2	1234.2
7.5°	1213.5	1217.0	1223.8	1225.6	1227.3
10°	1201.5	1203.2	1210.1	1213.5	1213.5
12.5°	1184.3	1187.7	1194.6	1198.0	1196.3
15°	1161.9	1165.3	1173.9	1177.4	1177.4
17.5°	1137.8	1141.2	1148.1	1153.3	1155.0
20°	1112.0	1113.7	1124.0	1127.5	1127.5
22.5°	1081.0	1086.1	1091.3	1101.6	1103.4
25°	1048.3	1051.7	1060.3	1072.4	1077.5
27.5°	1012.1	1013.9	1025.9	1044.8	1050.0
30°	969.1	976.0	989.8	1013.9	1020.7
32.5°	929.5	934.7	955.3	982.9	993.2
35°	884.8	889.9	919.2	951.9	967.4
37.5°	836.6	843.4	879.6	919.2	938.1
40°	791.8	800.4	840.0	889.9	912.3
42.5°	743.6	752.2	800.4	857.2	884.8
45°	690.2	704.0	757.4	826.2	855.5
47.5°	640.3	657.5	717.8	793.5	827.9
50°	588.7	612.8	676.5	759.1	791.8
52.5°	542.2	564.6	635.2	719.5	753.9
55°	488.9	523.3	593.9	676.5	714.3
57.5°	442.4	473.4	547.4	635.2	667.9
60°	392.5	426.9	504.3	588.7	628.3
62.5°	349.4	382.1	461.3	542.2	574.9
65°	303.0	340.8	413.1	492.3	521.6
67.5°	268.5	294.3	370.1	444.1	469.9
70°	223.8	254.8	323.6	390.7	411.4
72.5°	184.2	216.9	280.6	339.1	358.0
75°	151.5	180.7	235.8	285.7	301.2
77.5°	122.2	146.3	194.5	228.9	232.4
80°	89.5	110.2	148.0	156.6	151.5
82.5°	63.7	77.5	98.1	103.3	98.1
85°	39.6	48.2	58.5	62.0	56.8
87.5°	18.9	18.9	24.1	24.1	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)