

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: P220139

Luminaire Tested: **Z3-WL-4L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220139
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-4L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3586.2 lumens
Efficiency: N/A
Efficacy: 117.6 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

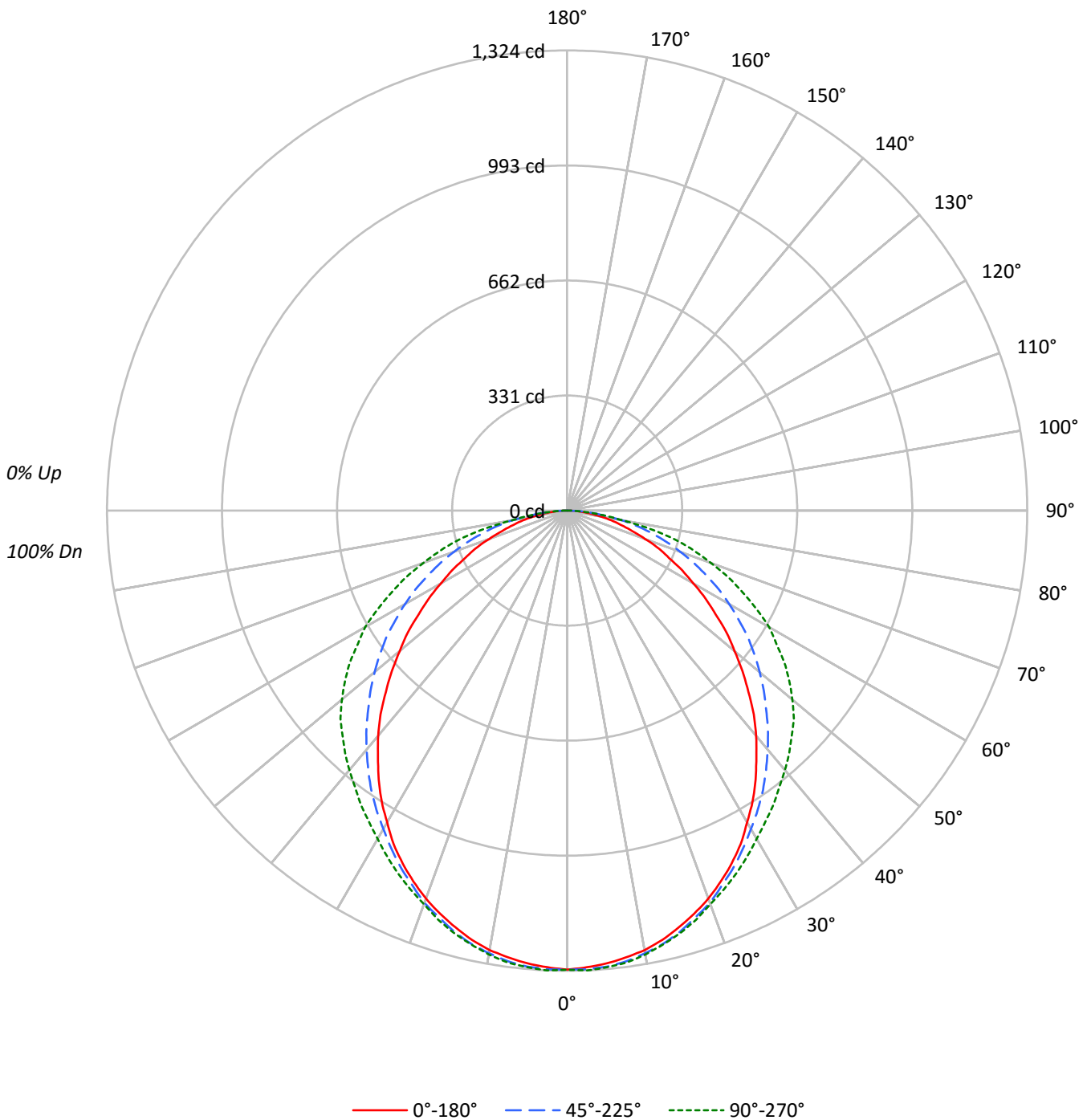
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3554	3554	3554
5°	3533	3558	3563
10°	3509	3534	3544
15°	3459	3495	3505
20°	3403	3440	3450
25°	3326	3364	3419
30°	3218	3287	3389
35°	3106	3227	3396
40°	2973	3153	3425
45°	2807	3080	3479
50°	2634	3026	3543
55°	2451	2977	3582
60°	2257	2901	3613
65°	2062	2811	3549
70°	1881	2721	3459
75°	1683	2620	3347
80°	1483	2452	2509
85°	1306	1930	1874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	3.5
10°-20°	352.8	9.8
20°-30°	522.6	14.6
30°-40°	616.1	17.2
40°-50°	631.7	17.6
50°-60°	571.1	15.9
60°-70°	439.1	12.2
70°-80°	260.3	7.3
80°-90°	67.7	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°	1000.2	27.9
0°-40°	1616.2	45.1
0°-60°	2819.1	78.6
0°-90°	3586.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3586.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1308	1312	1317	1319	1319	124
15°	1242	1245	1254	1258	1258	350
25°	1120	1124	1133	1146	1152	515
35°	946	951	982	1017	1034	590
45°	738	752	809	883	914	570
55°	522	559	635	723	763	469
65°	324	364	442	526	557	325
75°	162	193	252	305	322	173
85°	42	52	62	66	61	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.8	1320.8	1320.8	1320.8	1320.8
2.5°	1315.2	1317.1	1320.8	1324.4	1324.4
5°	1307.9	1311.6	1317.1	1318.9	1318.9
7.5°	1296.9	1300.5	1307.9	1309.7	1311.6
10°	1284.0	1285.8	1293.2	1296.9	1296.9
12.5°	1265.6	1269.3	1276.6	1280.3	1278.5
15°	1241.7	1245.3	1254.5	1258.2	1258.2
17.5°	1215.9	1219.6	1227.0	1232.5	1234.3
20°	1188.3	1190.2	1201.2	1204.9	1204.9
22.5°	1155.2	1160.7	1166.2	1177.3	1179.1
25°	1120.3	1123.9	1133.1	1146.0	1151.5
27.5°	1081.6	1083.5	1096.3	1116.6	1122.1
30°	1035.6	1043.0	1057.7	1083.5	1090.8
32.5°	993.3	998.9	1020.9	1050.4	1061.4
35°	945.5	951.0	982.3	1017.2	1033.8
37.5°	894.0	901.4	940.0	982.3	1002.5
40°	846.2	855.4	897.7	951.0	974.9
42.5°	794.7	803.9	855.4	916.1	945.5
45°	737.6	752.4	809.4	883.0	914.2
47.5°	684.3	702.7	767.1	848.0	884.8
50°	629.1	654.9	722.9	811.2	846.2
52.5°	579.4	603.4	678.8	768.9	805.7
55°	522.4	559.2	634.6	722.9	763.4
57.5°	472.8	505.9	585.0	678.8	713.7
60°	419.4	456.2	539.0	629.1	671.4
62.5°	373.4	408.4	493.0	579.4	614.4
65°	323.8	364.2	441.5	526.1	557.4
67.5°	287.0	314.6	395.5	474.6	502.2
70°	239.1	272.2	345.8	417.6	439.6
72.5°	196.8	231.8	299.8	362.4	382.6
75°	161.9	193.1	252.0	305.4	321.9
77.5°	130.6	156.4	207.9	244.7	248.3
80°	95.7	117.7	158.2	167.4	161.9
82.5°	68.1	82.8	104.9	110.4	104.9
85°	42.3	51.5	62.5	66.2	60.7
87.5°	20.2	20.2	25.8	25.8	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)