

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: P220129

Luminaire Tested: **Z3-WL-6L30-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220129  
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-6L30-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4268.0 lumens  
Efficiency: N/A  
Efficacy: 107.0 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

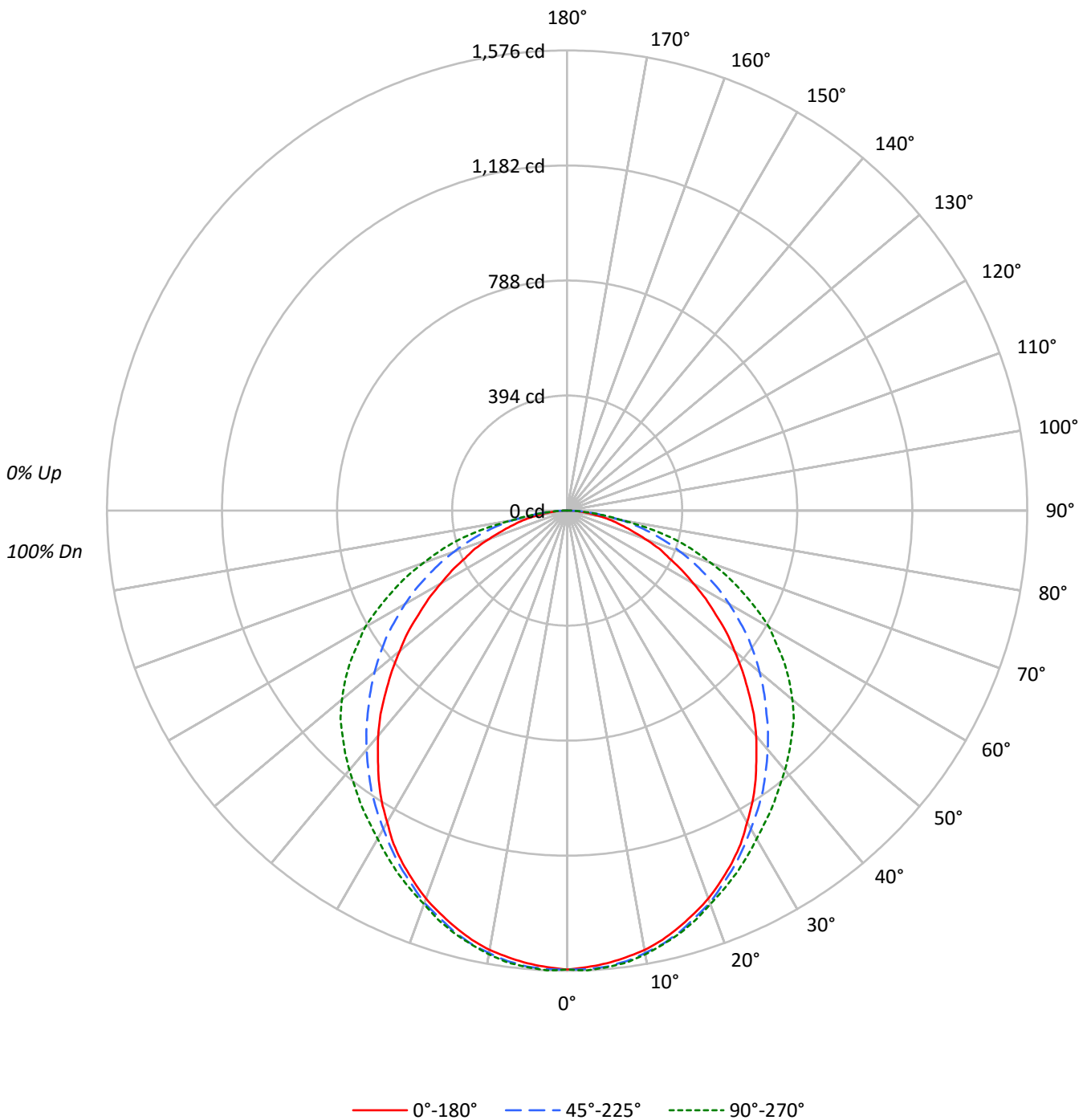
Input Watts (W): 39.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4230	4230	4230
5°	4205	4234	4240
10°	4176	4205	4217
15°	4117	4160	4172
20°	4050	4094	4107
25°	3958	4004	4069
30°	3830	3911	4034
35°	3697	3841	4042
40°	3537	3753	4076
45°	3341	3666	4141
50°	3134	3602	4216
55°	2917	3544	4262
60°	2686	3452	4301
65°	2453	3345	4223
70°	2239	3238	4116
75°	2004	3118	3983
80°	1764	2918	2986
85°	1556	2297	2229



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.5	3.5
10°-20°	419.9	9.8
20°-30°	622.0	14.6
30°-40°	733.2	17.2
40°-50°	751.8	17.6
50°-60°	679.7	15.9
60°-70°	522.6	12.2
70°-80°	309.8	7.3
80°-90°	80.5	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°	1190.3	27.9
0°-40°	1923.5	45.1
0°-60°	3355.0	78.6
0°-90°	4268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4268.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1556	1561	1568	1570	1570	148
15°	1478	1482	1493	1497	1497	417
25°	1333	1338	1349	1364	1370	613
35°	1125	1132	1169	1211	1230	703
45°	878	895	963	1051	1088	678
55°	622	666	755	860	908	558
65°	385	434	525	626	663	387
75°	193	230	300	363	383	206
85°	50	61	74	79	72	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1571.9	1571.9	1571.9	1571.9	1571.9
2.5°	1565.3	1567.5	1571.9	1576.3	1576.3
5°	1556.5	1560.9	1567.5	1569.7	1569.7
7.5°	1543.4	1547.8	1556.5	1558.7	1560.9
10°	1528.1	1530.3	1539.0	1543.4	1543.4
12.5°	1506.2	1510.6	1519.3	1523.7	1521.5
15°	1477.7	1482.1	1493.1	1497.4	1497.4
17.5°	1447.1	1451.5	1460.2	1466.8	1469.0
20°	1414.2	1416.4	1429.6	1434.0	1434.0
22.5°	1374.8	1381.4	1388.0	1401.1	1403.3
25°	1333.2	1337.6	1348.6	1363.9	1370.5
27.5°	1287.3	1289.5	1304.8	1328.9	1335.4
30°	1232.5	1241.3	1258.8	1289.5	1298.2
32.5°	1182.2	1188.8	1215.0	1250.1	1263.2
35°	1125.3	1131.8	1169.1	1210.6	1230.4
37.5°	1064.0	1072.7	1118.7	1169.1	1193.1
40°	1007.0	1018.0	1068.3	1131.8	1160.3
42.5°	945.8	956.7	1018.0	1090.2	1125.3
45°	877.9	895.4	963.3	1050.8	1088.1
47.5°	814.4	836.3	912.9	1009.2	1053.0
50°	748.7	779.4	860.4	965.5	1007.0
52.5°	689.6	718.1	807.8	915.1	958.9
55°	621.7	665.5	755.3	860.4	908.5
57.5°	562.6	602.0	696.2	807.8	849.4
60°	499.1	542.9	641.4	748.7	799.1
62.5°	444.4	486.0	586.7	689.6	731.2
65°	385.3	433.5	525.4	626.1	663.3
67.5°	341.5	374.4	470.7	564.8	597.7
70°	284.6	324.0	411.6	497.0	523.2
72.5°	234.2	275.8	356.8	431.3	455.4
75°	192.7	229.9	299.9	363.4	383.1
77.5°	155.4	186.1	247.4	291.2	295.5
80°	113.8	140.1	188.3	199.2	192.7
82.5°	81.0	98.5	124.8	131.4	124.8
85°	50.4	61.3	74.4	78.8	72.2
87.5°	24.1	24.1	30.6	30.6	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)