

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: P220146

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35858)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WG-6L30-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4010.5 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.34 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

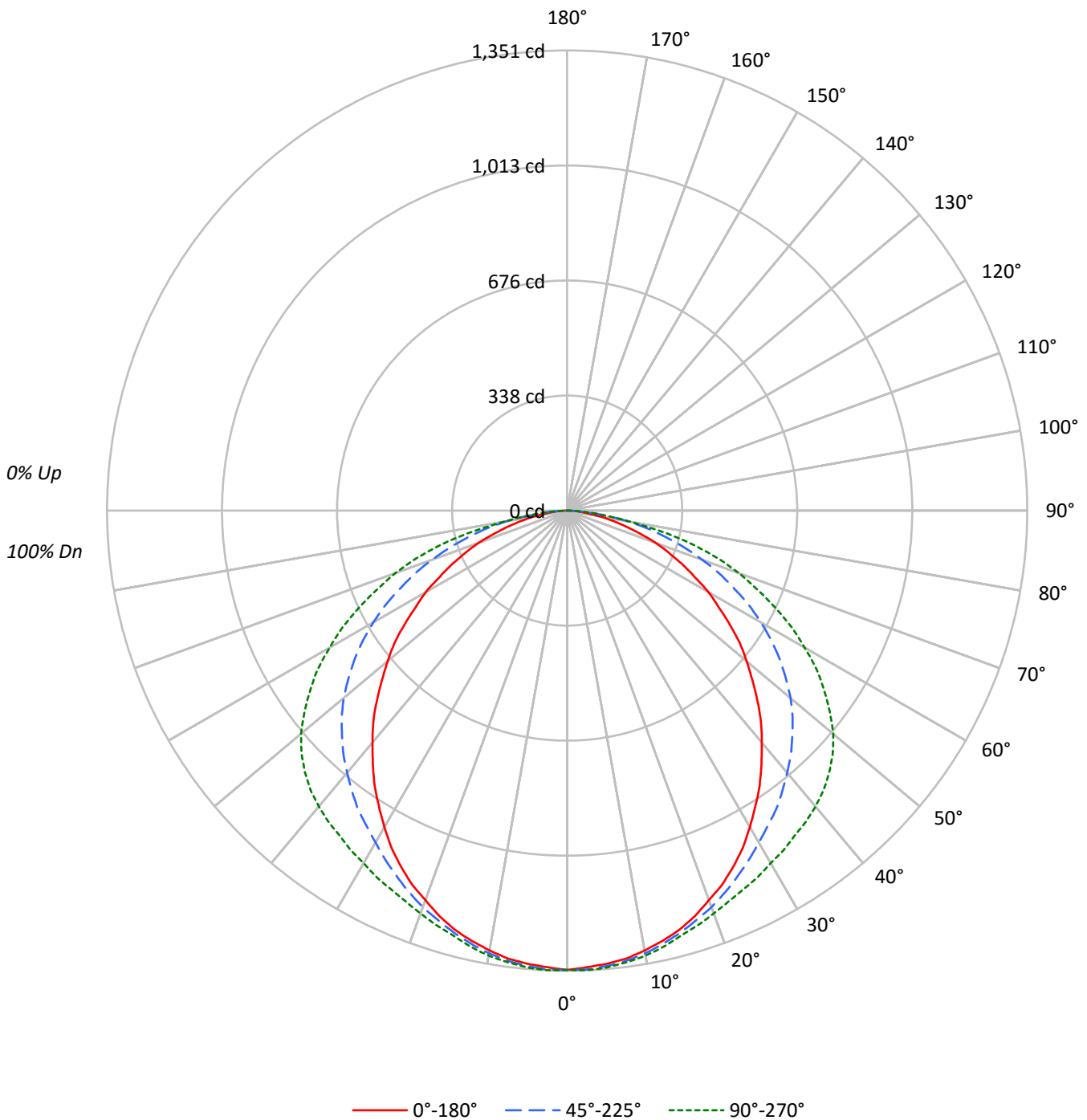
Input Watts (W): 39.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3629	3629	3629
5°	3607	3625	3637
10°	3583	3607	3625
15°	3550	3574	3599
20°	3486	3548	3605
25°	3426	3517	3640
30°	3333	3497	3714
35°	3236	3517	3826
40°	3122	3530	3984
45°	3008	3557	4141
50°	2878	3584	4271
55°	2732	3575	4324
60°	2580	3535	4336
65°	2370	3443	4294
70°	2170	3324	4220
75°	1821	3118	3937
80°	1492	2782	2850
85°	1081	1893	1893



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.4	3.2
10°-20°	362.1	9.0
20°-30°	547.8	13.7
30°-40°	671.3	16.7
40°-50°	722.3	18.0
50°-60°	677.1	16.9
60°-70°	527.5	13.2
70°-80°	305.1	7.6
80°-90°	70.1	1.7
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°	1037.3	25.9
0°-40°	1708.5	42.6
0°-60°	3107.9	77.5
0°-90°	4010.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4010.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1335	1338	1342	1344	1346	127
15°	1274	1274	1283	1292	1292	359
25°	1154	1160	1184	1213	1226	531
35°	985	1005	1070	1138	1165	615
45°	790	828	935	1044	1088	609
55°	582	646	762	880	922	521
65°	372	436	541	639	674	369
75°	175	228	300	357	379	189
85°	35	52	61	64	61	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1348.6	1348.6	1348.6	1348.6	1348.6
2.5°	1342.0	1344.2	1348.6	1350.8	1350.8
5°	1335.4	1337.6	1342.0	1344.2	1346.4
7.5°	1326.7	1328.9	1333.2	1337.6	1337.6
10°	1311.4	1313.5	1320.1	1324.5	1326.7
12.5°	1293.8	1296.0	1302.6	1307.0	1311.4
15°	1274.1	1274.1	1282.9	1291.7	1291.7
17.5°	1247.9	1252.2	1261.0	1271.9	1276.3
20°	1217.2	1223.8	1239.1	1252.2	1258.8
22.5°	1188.8	1195.3	1212.8	1232.5	1241.3
25°	1153.7	1160.3	1184.4	1212.8	1226.0
27.5°	1116.5	1127.5	1155.9	1197.5	1212.8
30°	1072.7	1085.9	1125.3	1177.8	1195.3
32.5°	1028.9	1046.5	1096.8	1160.3	1182.2
35°	985.2	1004.9	1070.5	1138.4	1164.7
37.5°	937.0	961.1	1037.7	1118.7	1151.5
40°	888.8	915.1	1004.9	1096.8	1134.0
42.5°	842.9	875.7	972.0	1070.5	1114.3
45°	790.3	827.5	934.8	1044.3	1088.1
47.5°	737.8	783.7	897.6	1011.4	1057.4
50°	687.4	735.6	856.0	974.2	1020.2
52.5°	639.3	689.6	810.0	928.2	972.0
55°	582.3	645.8	761.9	880.1	921.7
57.5°	527.6	591.1	711.5	823.2	869.1
60°	479.4	534.2	656.8	764.0	805.6
62.5°	422.5	481.6	602.0	702.7	744.3
65°	372.2	435.7	540.7	639.3	674.3
67.5°	321.8	376.5	483.8	569.2	602.0
70°	275.8	326.2	422.5	501.3	536.4
72.5°	223.3	275.8	361.2	429.1	461.9
75°	175.1	227.7	299.9	356.8	378.7
77.5°	133.5	179.5	240.8	280.2	284.6
80°	96.3	131.4	179.5	190.5	183.9
82.5°	61.3	89.8	113.8	116.0	116.0
85°	35.0	52.5	61.3	63.5	61.3
87.5°	15.3	19.7	19.7	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)