

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: P220142

Luminaire Tested: **Z3-WG-2L30-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220142  
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-2L30-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (84) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2276.9 lumens  
Efficiency: N/A  
Efficacy: 109.5 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

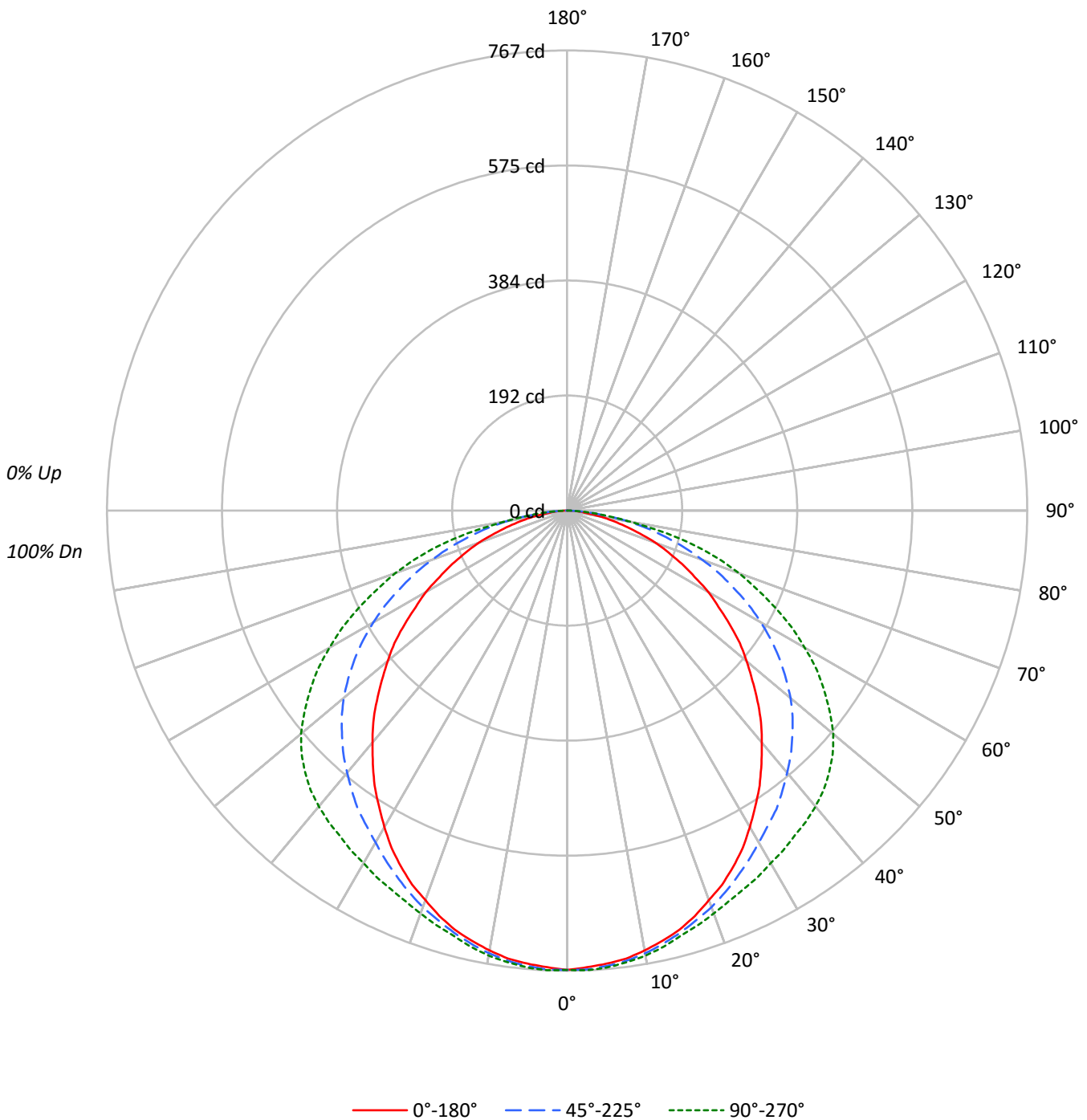
Input Watts (W): 20.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2060	2060	2060
5°	2048	2058	2065
10°	2034	2048	2058
15°	2015	2029	2043
20°	1979	2015	2046
25°	1945	1996	2067
30°	1892	1985	2109
35°	1837	1997	2172
40°	1773	2004	2262
45°	1708	2020	2351
50°	1634	2035	2425
55°	1551	2029	2455
60°	1465	2007	2462
65°	1345	1955	2437
70°	1232	1888	2396
75°	1033	1771	2235
80°	848	1579	1618
85°	614	1074	1074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.3	3.2
10°-20°	205.5	9.0
20°-30°	311.0	13.7
30°-40°	381.1	16.7
40°-50°	410.1	18.0
50°-60°	384.4	16.9
60°-70°	299.5	13.2
70°-80°	173.2	7.6
80°-90°	39.8	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°	588.9	25.9
0°-40°	969.9	42.6
0°-60°	1764.4	77.5
0°-90°	2276.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2276.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	758	759	762	763	764	72
15°	723	723	728	733	733	204
25°	655	659	672	688	696	301
35°	559	570	608	646	661	349
45°	449	470	531	593	618	346
55°	331	367	432	500	523	296
65°	211	247	307	363	383	210
75°	99	129	170	203	215	107
85°	20	30	35	36	35	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	765.6	765.6	765.6	765.6	765.6
2.5°	761.9	763.1	765.6	766.8	766.8
5°	758.1	759.4	761.9	763.1	764.4
7.5°	753.2	754.4	756.9	759.4	759.4
10°	744.5	745.7	749.4	751.9	753.2
12.5°	734.5	735.8	739.5	742.0	744.5
15°	723.3	723.3	728.3	733.3	733.3
17.5°	708.4	710.9	715.9	722.1	724.6
20°	691.0	694.8	703.5	710.9	714.6
22.5°	674.9	678.6	688.5	699.7	704.7
25°	655.0	658.7	672.4	688.5	696.0
27.5°	633.9	640.1	656.2	679.8	688.5
30°	609.0	616.5	638.8	668.7	678.6
32.5°	584.1	594.1	622.7	658.7	671.1
35°	559.3	570.5	607.8	646.3	661.2
37.5°	531.9	545.6	589.1	635.1	653.7
40°	504.6	519.5	570.5	622.7	643.8
42.5°	478.5	497.1	551.8	607.8	632.6
45°	448.7	469.8	530.7	592.8	617.7
47.5°	418.8	444.9	509.6	574.2	600.3
50°	390.3	417.6	486.0	553.1	579.2
52.5°	362.9	391.5	459.9	527.0	551.8
55°	330.6	366.6	432.5	499.6	523.2
57.5°	299.5	335.6	403.9	467.3	493.4
60°	272.2	303.3	372.9	433.8	457.4
62.5°	239.9	273.4	341.8	399.0	422.6
65°	211.3	247.3	307.0	362.9	382.8
67.5°	182.7	213.8	274.7	323.1	341.8
70°	156.6	185.2	239.9	284.6	304.5
72.5°	126.8	156.6	205.1	243.6	262.2
75°	99.4	129.3	170.3	202.6	215.0
77.5°	75.8	101.9	136.7	159.1	161.6
80°	54.7	74.6	101.9	108.1	104.4
82.5°	34.8	51.0	64.6	65.9	65.9
85°	19.9	29.8	34.8	36.0	34.8
87.5°	8.7	11.2	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)