

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: P220144

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220144
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-4L30-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: 3153.4 lumens
Efficiency: N/A
Efficacy: 103.4 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

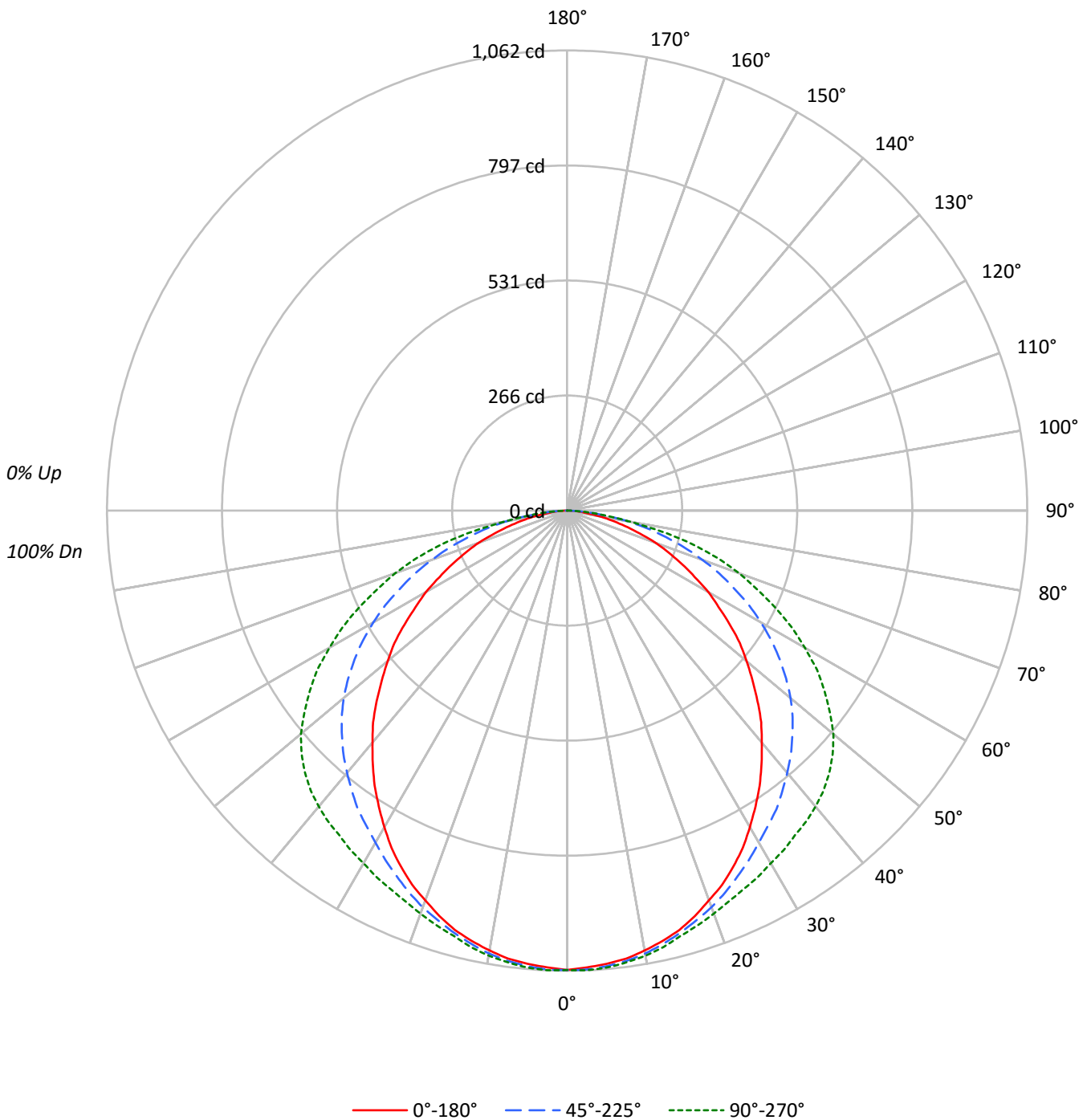
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2853	2853	2853
5°	2836	2850	2860
10°	2817	2836	2850
15°	2791	2810	2829
20°	2741	2790	2834
25°	2693	2765	2862
30°	2621	2749	2920
35°	2545	2765	3008
40°	2455	2775	3132
45°	2365	2797	3256
50°	2263	2817	3358
55°	2148	2810	3400
60°	2029	2779	3409
65°	1863	2707	3376
70°	1707	2614	3318
75°	1432	2452	3096
80°	1173	2187	2241
85°	849	1488	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.2
10°-20°	284.7	9.0
20°-30°	430.7	13.7
30°-40°	527.8	16.7
40°-50°	567.9	18.0
50°-60°	532.3	16.9
60°-70°	414.8	13.2
70°-80°	239.9	7.6
80°-90°	55.1	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°	815.6	25.9
0°-40°	1343.3	42.6
0°-60°	2443.6	77.5
0°-90°	3153.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3153.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1050	1052	1055	1057	1059	100
15°	1002	1002	1009	1016	1016	282
25°	907	912	931	954	964	417
35°	775	790	842	895	916	484
45°	621	651	735	821	856	479
55°	458	508	599	692	725	410
65°	293	342	425	503	530	291
75°	138	179	236	281	298	149
85°	28	41	48	50	48	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.3	1060.3	1060.3	1060.3	1060.3
2.5°	1055.2	1056.9	1060.3	1062.0	1062.0
5°	1050.0	1051.7	1055.2	1056.9	1058.6
7.5°	1043.1	1044.8	1048.3	1051.7	1051.7
10°	1031.1	1032.8	1037.9	1041.4	1043.1
12.5°	1017.3	1019.0	1024.2	1027.6	1031.1
15°	1001.8	1001.8	1008.7	1015.6	1015.6
17.5°	981.1	984.6	991.5	1000.1	1003.5
20°	957.0	962.2	974.3	984.6	989.8
22.5°	934.7	939.8	953.6	969.1	976.0
25°	907.1	912.3	931.2	953.6	963.9
27.5°	877.9	886.5	908.9	941.6	953.6
30°	843.4	853.8	884.8	926.1	939.8
32.5°	809.0	822.8	862.4	912.3	929.5
35°	774.6	790.1	841.7	895.1	915.7
37.5°	736.7	755.7	815.9	879.6	905.4
40°	698.9	719.5	790.1	862.4	891.6
42.5°	662.7	688.5	764.3	841.7	876.1
45°	621.4	650.7	735.0	821.1	855.5
47.5°	580.1	616.2	705.7	795.2	831.4
50°	540.5	578.4	673.0	766.0	802.1
52.5°	502.6	542.2	636.9	729.8	764.3
55°	457.9	507.8	599.0	692.0	724.7
57.5°	414.8	464.8	559.4	647.2	683.4
60°	377.0	420.0	516.4	600.7	633.4
62.5°	332.2	378.7	473.4	552.5	585.2
65°	292.6	342.5	425.2	502.6	530.2
67.5°	253.0	296.1	380.4	447.5	473.4
70°	216.9	256.5	332.2	394.2	421.7
72.5°	175.6	216.9	284.0	337.4	363.2
75°	137.7	179.0	235.8	280.6	297.8
77.5°	105.0	141.1	189.3	220.3	223.8
80°	75.7	103.3	141.1	149.8	144.6
82.5°	48.2	70.6	89.5	91.2	91.2
85°	27.5	41.3	48.2	49.9	48.2
87.5°	12.0	15.5	15.5	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)