

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: P220043

Luminaire Tested: **Z3-WN-2L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35876)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-2L30-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2791.9 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

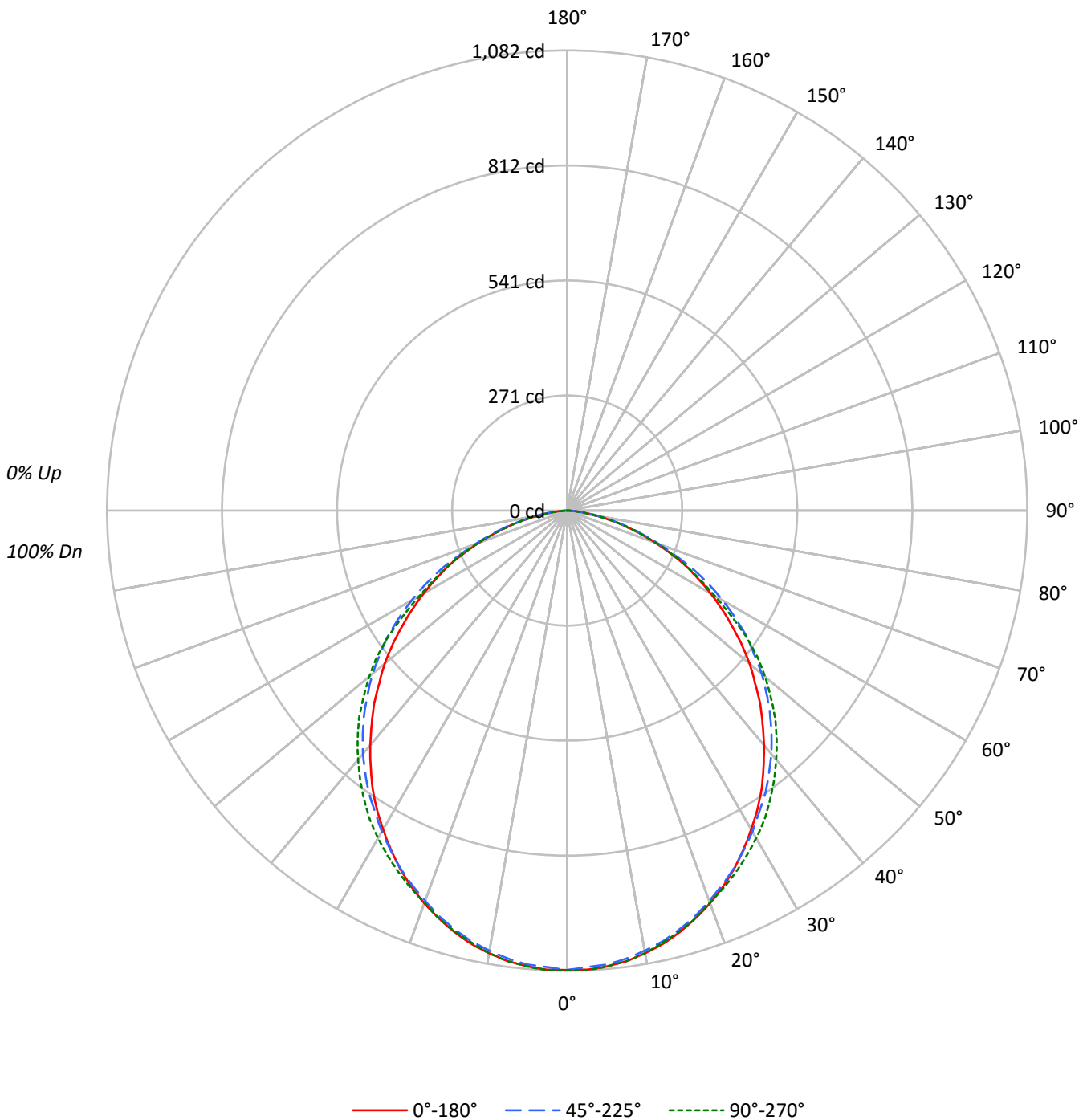
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2908	2908	2908
5°	2907	2895	2907
10°	2887	2871	2887
15°	2857	2841	2853
20°	2814	2797	2810
25°	2759	2755	2786
30°	2690	2708	2763
35°	2620	2668	2732
40°	2530	2624	2687
45°	2442	2567	2634
50°	2345	2501	2544
55°	2218	2413	2399
60°	2098	2273	2154
65°	1963	2085	1973
70°	1737	1795	1749
75°	1464	1541	1464
80°	1125	1172	1057
85°	685	685	596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	3.7
10°-20°	288.5	10.3
20°-30°	429.2	15.4
30°-40°	508.4	18.2
40°-50°	516.0	18.5
50°-60°	449.0	16.1
60°-70°	313.8	11.2
70°-80°	155.1	5.6
80°-90°	29.9	1.1
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°	819.7	29.4
0°-40°	1328.1	47.6
0°-60°	2293.2	82.1
0°-90°	2791.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2791.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1076	1076	1072	1078	1076	102
15°	1026	1026	1020	1026	1024	289
25°	929	929	928	935	938	428
35°	797	799	812	828	832	498
45°	642	649	674	688	692	494
55°	473	494	514	516	511	424
65°	308	322	328	313	310	302
75°	141	151	148	141	141	150
85°	22	25	22	21	19	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1080.5	1080.5	1074.5	1080.5	1081.9
5°	1076.0	1076.0	1071.6	1077.5	1076.0
7.5°	1068.6	1067.1	1062.7	1067.1	1068.6
10°	1056.7	1055.3	1050.8	1056.7	1056.7
12.5°	1043.4	1041.9	1037.5	1041.9	1040.4
15°	1025.6	1025.6	1019.7	1025.6	1024.1
17.5°	1004.9	1004.9	1000.4	1003.4	1004.9
20°	982.6	982.6	976.7	984.1	981.2
22.5°	957.4	957.4	953.0	960.4	960.4
25°	929.3	929.3	927.8	935.2	938.2
27.5°	898.2	899.6	899.6	911.5	914.5
30°	865.6	867.0	871.5	886.3	889.3
32.5°	832.9	834.4	840.4	858.1	862.6
35°	797.4	798.9	812.2	828.5	831.5
37.5°	758.8	763.3	779.6	795.9	798.9
40°	720.3	724.8	747.0	760.3	764.8
42.5°	680.3	689.2	711.4	724.8	729.2
45°	641.8	649.2	674.4	687.7	692.1
47.5°	598.8	609.1	635.8	649.2	649.2
50°	560.2	572.1	597.3	607.7	607.7
52.5°	517.3	533.6	554.3	566.2	563.2
55°	472.8	493.5	514.3	515.8	511.3
57.5°	431.3	450.6	468.3	466.9	453.5
60°	389.8	406.1	422.4	410.5	400.2
62.5°	346.8	364.6	376.5	357.2	352.7
65°	308.3	321.6	327.5	312.7	309.8
67.5°	262.3	278.6	274.2	269.7	266.8
70°	220.8	234.2	228.2	223.8	222.3
72.5°	179.3	192.7	186.7	183.8	179.3
75°	140.8	151.2	148.2	140.8	140.8
77.5°	103.7	112.6	108.2	105.2	103.7
80°	72.6	77.1	75.6	71.1	68.2
82.5°	43.0	48.9	45.9	43.0	41.5
85°	22.2	25.2	22.2	20.7	19.3
87.5°	7.4	7.4	5.9	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)