

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: P220176

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35860)
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-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2402.6 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

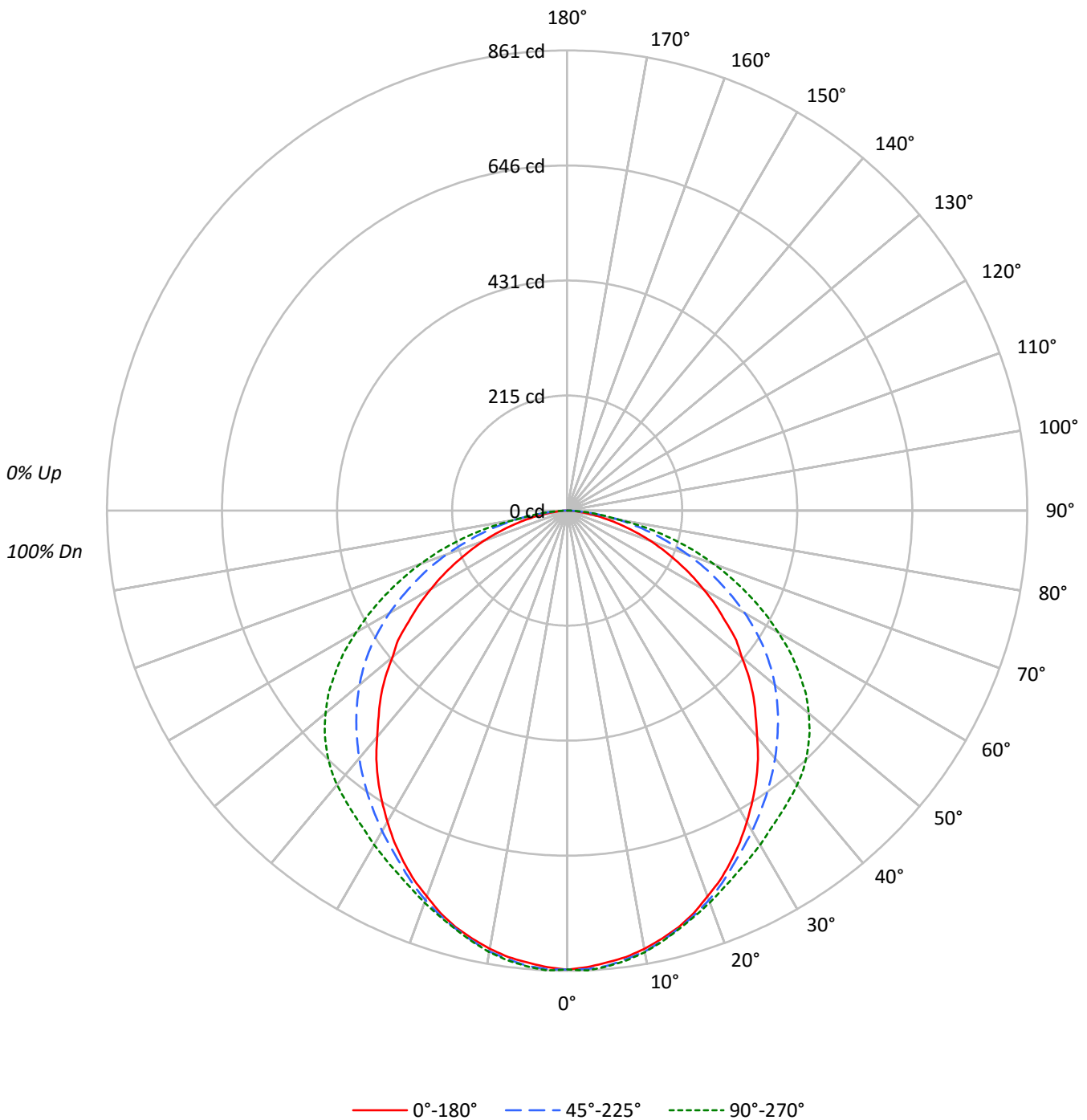
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2311	2311	2311
5°	2293	2310	2313
10°	2275	2289	2292
15°	2247	2254	2258
20°	2200	2221	2235
25°	2151	2177	2225
30°	2089	2151	2244
35°	2025	2135	2282
40°	1943	2126	2353
45°	1878	2124	2422
50°	1785	2123	2472
55°	1697	2111	2484
60°	1586	2067	2455
65°	1456	1987	2398
70°	1310	1888	2298
75°	1098	1731	2106
80°	848	1522	1540
85°	614	1037	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.4
10°-20°	228.1	9.5
20°-30°	339.3	14.1
30°-40°	408.6	17.0
40°-50°	432.7	18.0
50°-60°	400.1	16.7
60°-70°	304.7	12.7
70°-80°	169.6	7.1
80°-90°	38.6	1.6
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°	648.3	27.0
0°-40°	1056.9	44.0
0°-60°	1889.7	78.7
0°-90°	2402.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2402.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	849	851	855	856	856	81
15°	807	808	809	810	810	227
25°	725	726	733	743	749	333
35°	616	623	650	682	695	385
45°	493	508	558	614	636	379
55°	362	392	450	508	530	324
65°	229	258	312	359	377	227
75°	106	129	166	194	203	113
85°	20	27	34	36	36	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	858.8	858.8	858.8	858.8	858.8
2.5°	855.1	856.3	858.8	861.3	861.3
5°	848.9	851.4	855.1	856.3	856.3
7.5°	842.7	843.9	846.4	848.9	848.9
10°	832.7	834.0	837.7	838.9	838.9
12.5°	820.3	821.5	824.0	825.3	825.3
15°	806.6	807.9	809.1	810.4	810.4
17.5°	789.2	790.5	793.0	795.4	795.4
20°	768.1	771.8	775.6	778.0	780.5
22.5°	748.2	749.4	755.7	761.9	764.4
25°	724.6	725.8	733.3	743.2	749.4
27.5°	699.7	703.5	712.2	729.6	735.8
30°	672.4	677.4	692.3	713.4	722.1
32.5°	645.0	650.0	671.1	697.2	707.2
35°	616.5	622.7	650.0	682.3	694.8
37.5°	586.6	594.1	627.6	666.2	682.3
40°	553.1	565.5	605.3	650.0	669.9
42.5°	522.0	536.9	581.7	632.6	655.0
45°	493.4	508.3	558.0	614.0	636.3
47.5°	461.1	479.7	533.2	592.8	615.2
50°	426.3	449.9	507.1	568.0	590.4
52.5°	399.0	420.1	479.7	540.6	563.0
55°	361.7	391.5	449.9	508.3	529.5
57.5°	329.4	356.7	417.6	474.8	495.9
60°	294.6	323.1	384.0	437.5	456.1
62.5°	262.2	289.6	348.0	400.2	417.6
65°	228.7	258.5	312.0	359.2	376.6
67.5°	196.4	225.0	277.2	320.7	334.3
70°	166.5	191.4	239.9	275.9	292.1
72.5°	134.2	159.1	201.3	234.9	248.6
75°	105.6	129.3	166.5	193.9	202.6
77.5°	78.3	100.7	130.5	151.6	155.4
80°	54.7	73.3	98.2	101.9	99.4
82.5°	34.8	48.5	62.1	63.4	63.4
85°	19.9	27.3	33.6	36.0	36.0
87.5°	7.5	9.9	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)