

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: P220125

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35857)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-2L30-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2423.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

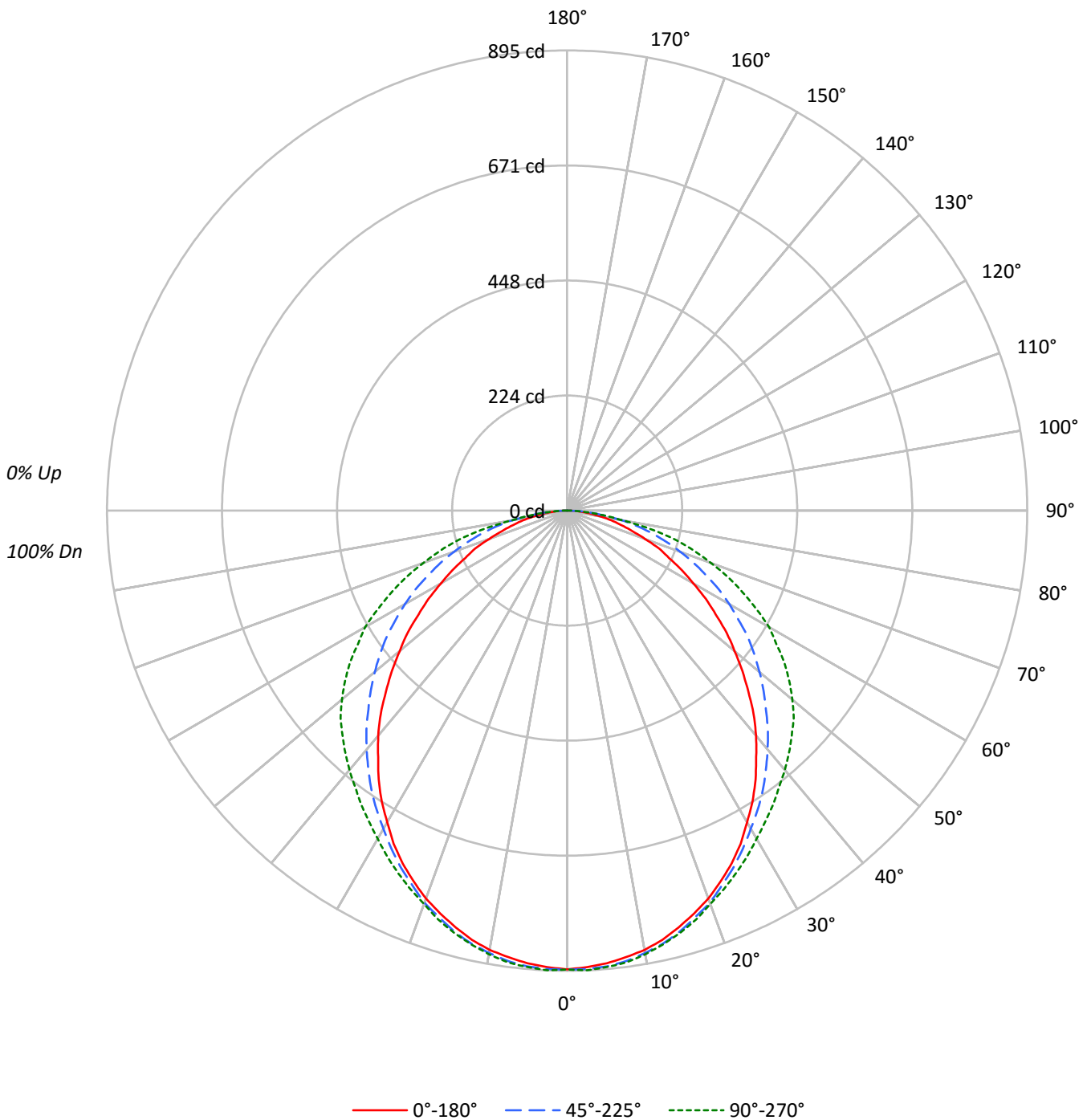
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2401	2401	2401
5°	2387	2404	2407
10°	2370	2387	2394
15°	2337	2361	2368
20°	2299	2324	2331
25°	2247	2273	2310
30°	2174	2220	2290
35°	2099	2180	2295
40°	2008	2131	2314
45°	1897	2081	2351
50°	1780	2045	2393
55°	1656	2012	2420
60°	1525	1960	2441
65°	1393	1899	2398
70°	1271	1839	2337
75°	1137	1771	2261
80°	1001	1657	1695
85°	883	1306	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	3.5
10°-20°	238.4	9.8
20°-30°	353.1	14.6
30°-40°	416.2	17.2
40°-50°	426.8	17.6
50°-60°	385.9	15.9
60°-70°	296.7	12.2
70°-80°	175.8	7.3
80°-90°	45.7	1.9
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°	675.8	27.9
0°-40°	1092.0	45.1
0°-60°	1904.7	78.6
0°-90°	2423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	884	886	890	891	891	84
15°	839	841	848	850	850	237
25°	757	759	766	774	778	348
35°	639	643	664	687	698	399
45°	498	508	547	597	618	385
55°	353	378	429	488	516	317
65°	219	246	298	356	377	219
75°	109	130	170	206	218	117
85°	29	35	42	45	41	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	892.4	892.4	892.4	892.4	892.4
2.5°	888.6	889.9	892.4	894.9	894.9
5°	883.7	886.2	889.9	891.1	891.1
7.5°	876.2	878.7	883.7	884.9	886.2
10°	867.5	868.8	873.7	876.2	876.2
12.5°	855.1	857.6	862.5	865.0	863.8
15°	838.9	841.4	847.6	850.1	850.1
17.5°	821.5	824.0	829.0	832.7	834.0
20°	802.9	804.1	811.6	814.1	814.1
22.5°	780.5	784.2	788.0	795.4	796.7
25°	756.9	759.4	765.6	774.3	778.0
27.5°	730.8	732.0	740.7	754.4	758.1
30°	699.7	704.7	714.6	732.0	737.0
32.5°	671.1	674.9	689.8	709.7	717.1
35°	638.8	642.6	663.7	687.3	698.5
37.5°	604.0	609.0	635.1	663.7	677.4
40°	571.7	577.9	606.5	642.6	658.7
42.5°	536.9	543.1	577.9	618.9	638.8
45°	498.4	508.3	546.9	596.6	617.7
47.5°	462.3	474.8	518.3	573.0	597.8
50°	425.1	442.5	488.4	548.1	571.7
52.5°	391.5	407.7	458.6	519.5	544.4
55°	353.0	377.8	428.8	488.4	515.8
57.5°	319.4	341.8	395.2	458.6	482.2
60°	283.4	308.2	364.2	425.1	453.6
62.5°	252.3	275.9	333.1	391.5	415.1
65°	218.7	246.1	298.3	355.5	376.6
67.5°	193.9	212.5	267.2	320.7	339.3
70°	161.6	183.9	233.7	282.1	297.0
72.5°	133.0	156.6	202.6	244.8	258.5
75°	109.4	130.5	170.3	206.3	217.5
77.5°	88.2	105.6	140.4	165.3	167.8
80°	64.6	79.5	106.9	113.1	109.4
82.5°	46.0	55.9	70.8	74.6	70.8
85°	28.6	34.8	42.3	44.7	41.0
87.5°	13.7	13.7	17.4	17.4	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)