

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: P220131

Luminaire Tested: **Z3-WL-2L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220131
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-2L35-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2510.0 lumens
Efficiency: N/A
Efficacy: 120.7 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

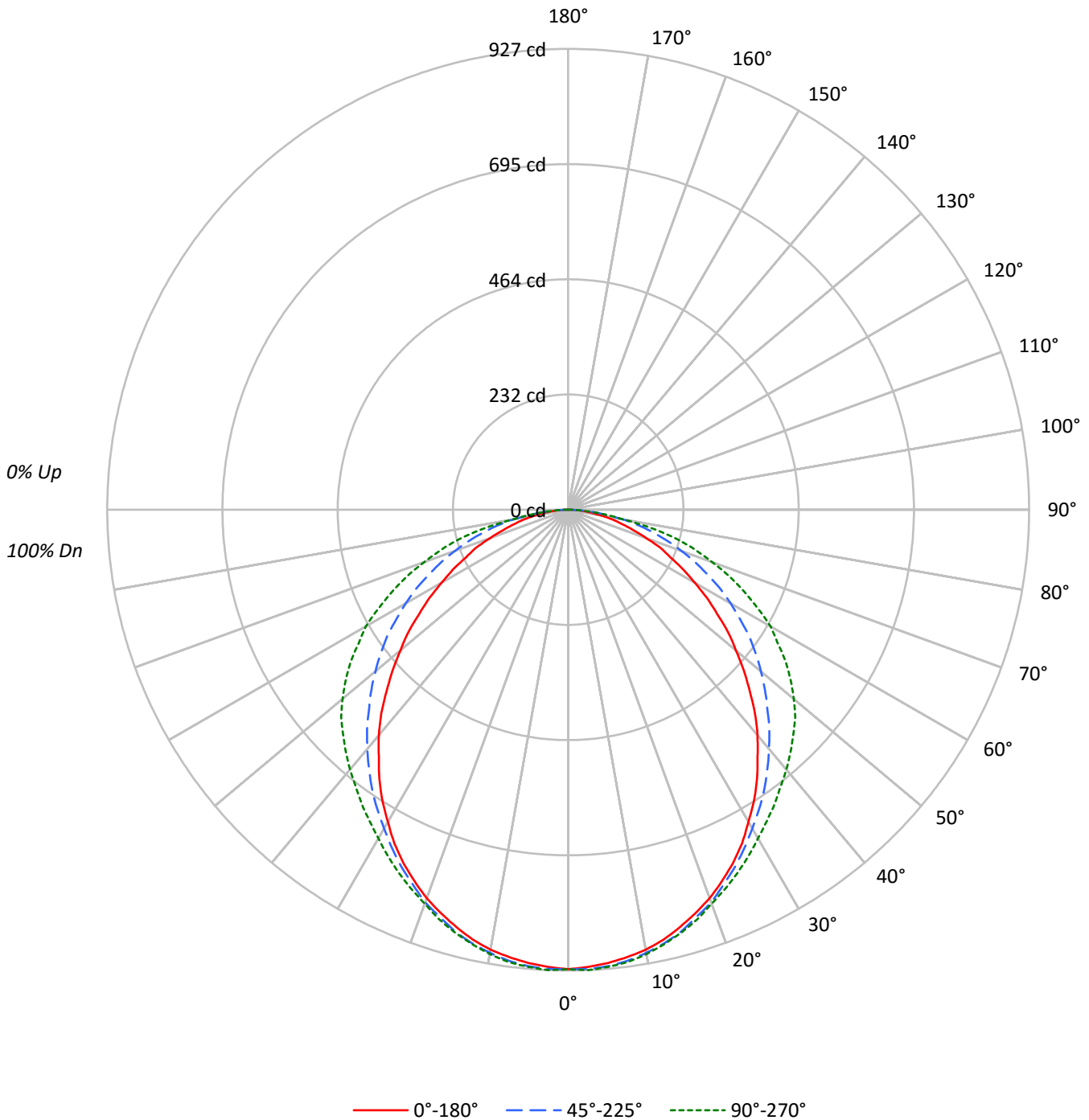
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59					59			
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50					50			
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43					43			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38					38			
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34					34			
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2488	2488	2488
5°	2473	2490	2494
10°	2456	2473	2480
15°	2421	2446	2453
20°	2382	2407	2415
25°	2328	2355	2393
30°	2252	2300	2372
35°	2174	2258	2377
40°	2080	2207	2397
45°	1965	2156	2435
50°	1843	2118	2479
55°	1715	2084	2507
60°	1580	2030	2529
65°	1443	1968	2484
70°	1317	1904	2421
75°	1178	1834	2342
80°	1037	1715	1756
85°	914	1352	1312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	3.5
10°-20°	246.9	9.8
20°-30°	365.8	14.6
30°-40°	431.2	17.2
40°-50°	442.2	17.6
50°-60°	399.7	15.9
60°-70°	307.4	12.2
70°-80°	182.2	7.3
80°-90°	47.4	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°	700.0	27.9
0°-40°	1131.2	45.1
0°-60°	1973.1	78.6
0°-90°	2510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	915	918	922	923	923	87
15°	869	872	878	881	881	245
25°	784	787	793	802	806	361
35°	662	666	688	712	724	413
45°	516	527	566	618	640	399
55°	366	391	444	506	534	328
65°	227	255	309	368	390	227
75°	113	135	176	214	225	121
85°	30	36	44	46	42	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.4	924.4	924.4	924.4	924.4
2.5°	920.6	921.8	924.4	927.0	927.0
5°	915.4	918.0	921.8	923.1	923.1
7.5°	907.7	910.3	915.4	916.7	918.0
10°	898.7	900.0	905.1	907.7	907.7
12.5°	885.8	888.4	893.5	896.1	894.8
15°	869.1	871.6	878.1	880.6	880.6
17.5°	851.0	853.6	858.8	862.6	863.9
20°	831.7	833.0	840.7	843.3	843.3
22.5°	808.5	812.4	816.3	824.0	825.3
25°	784.1	786.7	793.1	802.1	806.0
27.5°	757.0	758.3	767.3	781.5	785.4
30°	724.9	730.0	740.3	758.3	763.5
32.5°	695.2	699.1	714.6	735.2	742.9
35°	661.8	665.6	687.5	712.0	723.6
37.5°	625.7	630.9	657.9	687.5	701.7
40°	592.2	598.7	628.3	665.6	682.4
42.5°	556.2	562.6	598.7	641.2	661.8
45°	516.3	526.6	566.5	618.0	639.9
47.5°	478.9	491.8	536.9	593.5	619.3
50°	440.3	458.3	506.0	567.8	592.2
52.5°	405.6	422.3	475.1	538.2	563.9
55°	365.6	391.4	444.2	506.0	534.3
57.5°	330.9	354.1	409.4	475.1	499.5
60°	293.5	319.3	377.2	440.3	469.9
62.5°	261.4	285.8	345.0	405.6	430.0
65°	226.6	254.9	309.0	368.2	390.1
67.5°	200.8	220.2	276.8	332.2	351.5
70°	167.4	190.5	242.0	292.3	307.7
72.5°	137.8	162.2	209.9	253.6	267.8
75°	113.3	135.2	176.4	213.7	225.3
77.5°	91.4	109.4	145.5	171.2	173.8
80°	66.9	82.4	110.7	117.2	113.3
82.5°	47.6	57.9	73.4	77.2	73.4
85°	29.6	36.0	43.8	46.3	42.5
87.5°	14.2	14.2	18.0	18.0	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)