

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: P220182

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220182
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-2L35-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2488.9 lumens
Efficiency: N/A
Efficacy: 119.7 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

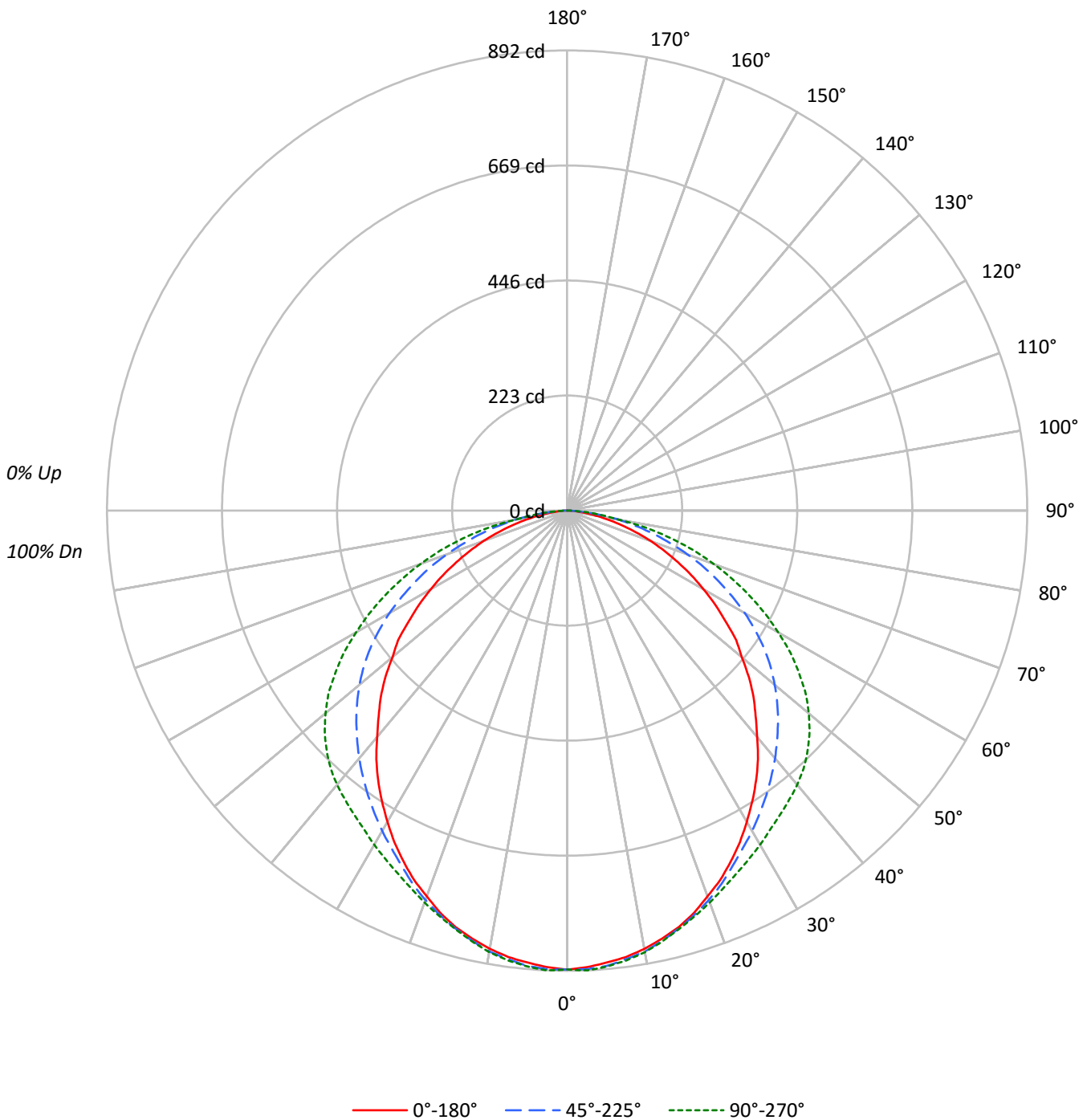
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2394	2394	2394
5°	2375	2393	2396
10°	2357	2371	2375
15°	2328	2335	2338
20°	2279	2301	2315
25°	2229	2255	2305
30°	2164	2228	2324
35°	2098	2212	2364
40°	2012	2203	2438
45°	1945	2200	2509
50°	1849	2199	2560
55°	1758	2187	2573
60°	1642	2141	2543
65°	1508	2058	2484
70°	1357	1955	2381
75°	1137	1794	2182
80°	877	1576	1596
85°	636	1074	1152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.4
10°-20°	236.3	9.5
20°-30°	351.5	14.1
30°-40°	423.3	17.0
40°-50°	448.3	18.0
50°-60°	414.5	16.7
60°-70°	315.7	12.7
70°-80°	175.7	7.1
80°-90°	40.0	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°	671.6	27.0
0°-40°	1094.9	44.0
0°-60°	1957.6	78.7
0°-90°	2488.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2488.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	879	882	886	887	887	83
15°	836	837	838	839	839	235
25°	751	752	760	770	776	345
35°	639	645	673	707	720	399
45°	511	527	578	636	659	393
55°	375	406	466	527	548	336
65°	237	268	323	372	390	235
75°	109	134	172	201	210	117
85°	21	28	35	37	37	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	889.7	889.7	889.7	889.7	889.7
2.5°	885.8	887.1	889.7	892.2	892.2
5°	879.4	881.9	885.8	887.1	887.1
7.5°	872.9	874.2	876.8	879.4	879.4
10°	862.6	863.9	867.8	869.1	869.1
12.5°	849.7	851.0	853.6	854.9	854.9
15°	835.6	836.9	838.2	839.4	839.4
17.5°	817.6	818.8	821.4	824.0	824.0
20°	795.7	799.5	803.4	806.0	808.5
22.5°	775.1	776.4	782.8	789.2	791.8
25°	750.6	751.9	759.6	769.9	776.4
27.5°	724.9	728.7	737.7	755.8	762.2
30°	696.5	701.7	717.1	739.0	748.0
32.5°	668.2	673.4	695.2	722.3	732.6
35°	638.6	645.0	673.4	706.8	719.7
37.5°	607.7	615.4	650.2	690.1	706.8
40°	572.9	585.8	627.0	673.4	694.0
42.5°	540.7	556.2	602.5	655.3	678.5
45°	511.1	526.6	578.1	636.0	659.2
47.5°	477.7	497.0	552.3	614.1	637.3
50°	441.6	466.1	525.3	588.4	611.6
52.5°	413.3	435.2	497.0	560.1	583.2
55°	374.7	405.6	466.1	526.6	548.5
57.5°	341.2	369.5	432.6	491.8	513.7
60°	305.1	334.7	397.8	453.2	472.5
62.5°	271.7	300.0	360.5	414.6	432.6
65°	236.9	267.8	323.2	372.1	390.1
67.5°	203.4	233.0	287.1	332.2	346.3
70°	172.5	198.3	248.5	285.8	302.6
72.5°	139.0	164.8	208.6	243.3	257.5
75°	109.4	133.9	172.5	200.8	209.9
77.5°	81.1	104.3	135.2	157.1	160.9
80°	56.6	76.0	101.7	105.6	103.0
82.5°	36.0	50.2	64.4	65.7	65.7
85°	20.6	28.3	34.8	37.3	37.3
87.5°	7.7	10.3	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)