

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: P220183

Luminaire Tested: **Z3-WN-3L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220183
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-3L35-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: 2981.0 lumens
Efficiency: N/A
Efficacy: 116.4 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

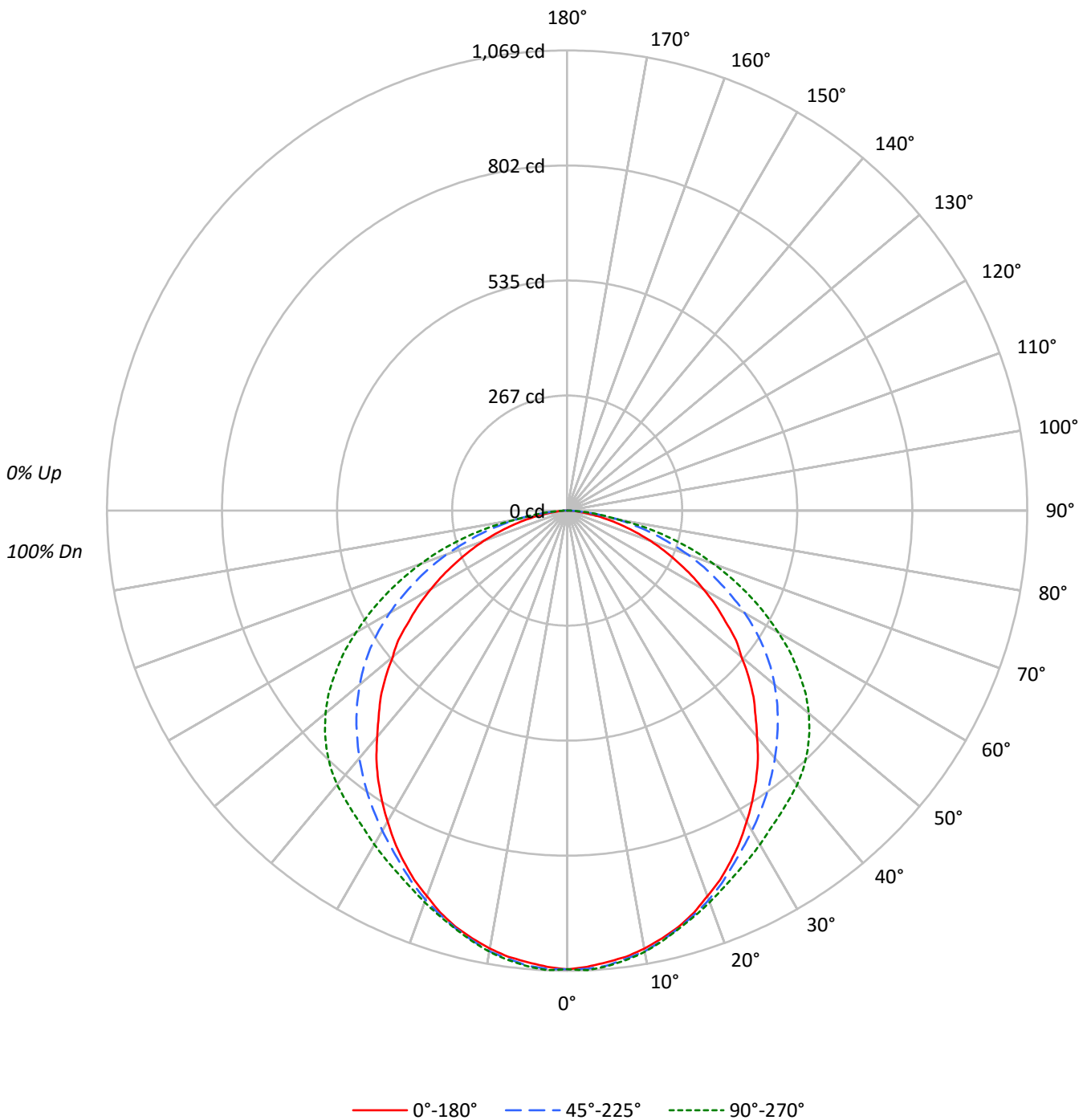
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2868	2868	2868
5°	2845	2866	2870
10°	2823	2840	2844
15°	2788	2797	2801
20°	2729	2756	2773
25°	2669	2701	2761
30°	2592	2669	2784
35°	2513	2649	2832
40°	2410	2638	2920
45°	2330	2635	3005
50°	2214	2634	3067
55°	2105	2619	3082
60°	1967	2565	3046
65°	1806	2465	2975
70°	1626	2341	2851
75°	1363	2148	2614
80°	1052	1888	1912
85°	763	1284	1380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	3.4
10°-20°	283.0	9.5
20°-30°	421.0	14.1
30°-40°	507.0	17.0
40°-50°	536.9	18.0
50°-60°	496.4	16.7
60°-70°	378.1	12.7
70°-80°	210.4	7.1
80°-90°	47.9	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°	804.4	27.0
0°-40°	1311.3	44.0
0°-60°	2344.6	78.7
0°-90°	2981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1053	1056	1061	1062	1062	100
15°	1001	1002	1004	1005	1005	282
25°	899	901	910	922	930	414
35°	765	773	806	847	862	478
45°	612	631	692	762	790	471
55°	449	486	558	631	657	402
65°	284	321	387	446	467	282
75°	131	160	207	241	251	140
85°	25	34	42	45	45	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1065.6	1065.6	1065.6	1065.6	1065.6
2.5°	1060.9	1062.5	1065.6	1068.7	1068.7
5°	1053.2	1056.3	1060.9	1062.5	1062.5
7.5°	1045.5	1047.1	1050.1	1053.2	1053.2
10°	1033.2	1034.7	1039.4	1040.9	1040.9
12.5°	1017.8	1019.3	1022.4	1023.9	1023.9
15°	1000.8	1002.3	1003.9	1005.4	1005.4
17.5°	979.2	980.8	983.8	986.9	986.9
20°	953.0	957.6	962.3	965.3	968.4
22.5°	928.3	929.9	937.6	945.3	948.4
25°	899.0	900.6	909.8	922.2	929.9
27.5°	868.2	872.8	883.6	905.2	912.9
30°	834.3	840.4	858.9	885.1	895.9
32.5°	800.3	806.5	832.7	865.1	877.4
35°	764.9	772.6	806.5	846.6	862.0
37.5°	727.9	737.1	778.7	826.5	846.6
40°	686.2	701.6	751.0	806.5	831.2
42.5°	647.7	666.2	721.7	784.9	812.7
45°	612.2	630.7	692.4	761.8	789.5
47.5°	572.1	595.2	661.5	735.6	763.3
50°	528.9	558.2	629.2	704.7	732.5
52.5°	495.0	521.2	595.2	670.8	698.6
55°	448.7	485.8	558.2	630.7	656.9
57.5°	408.6	442.6	518.1	589.1	615.3
60°	365.5	400.9	476.5	542.8	565.9
62.5°	325.4	359.3	431.8	496.5	518.1
65°	283.7	320.8	387.1	445.7	467.2
67.5°	243.6	279.1	343.9	397.9	414.8
70°	206.6	237.5	297.6	342.3	362.4
72.5°	166.5	197.4	249.8	291.5	308.4
75°	131.1	160.4	206.6	240.6	251.4
77.5°	97.2	124.9	161.9	188.1	192.8
80°	67.9	91.0	121.8	126.4	123.4
82.5°	43.2	60.1	77.1	78.6	78.6
85°	24.7	33.9	41.6	44.7	44.7
87.5°	9.3	12.3	15.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)