

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: P220151

Luminaire Tested: **Z3-WG-5L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35858)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-5L35-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3668.6 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.34 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

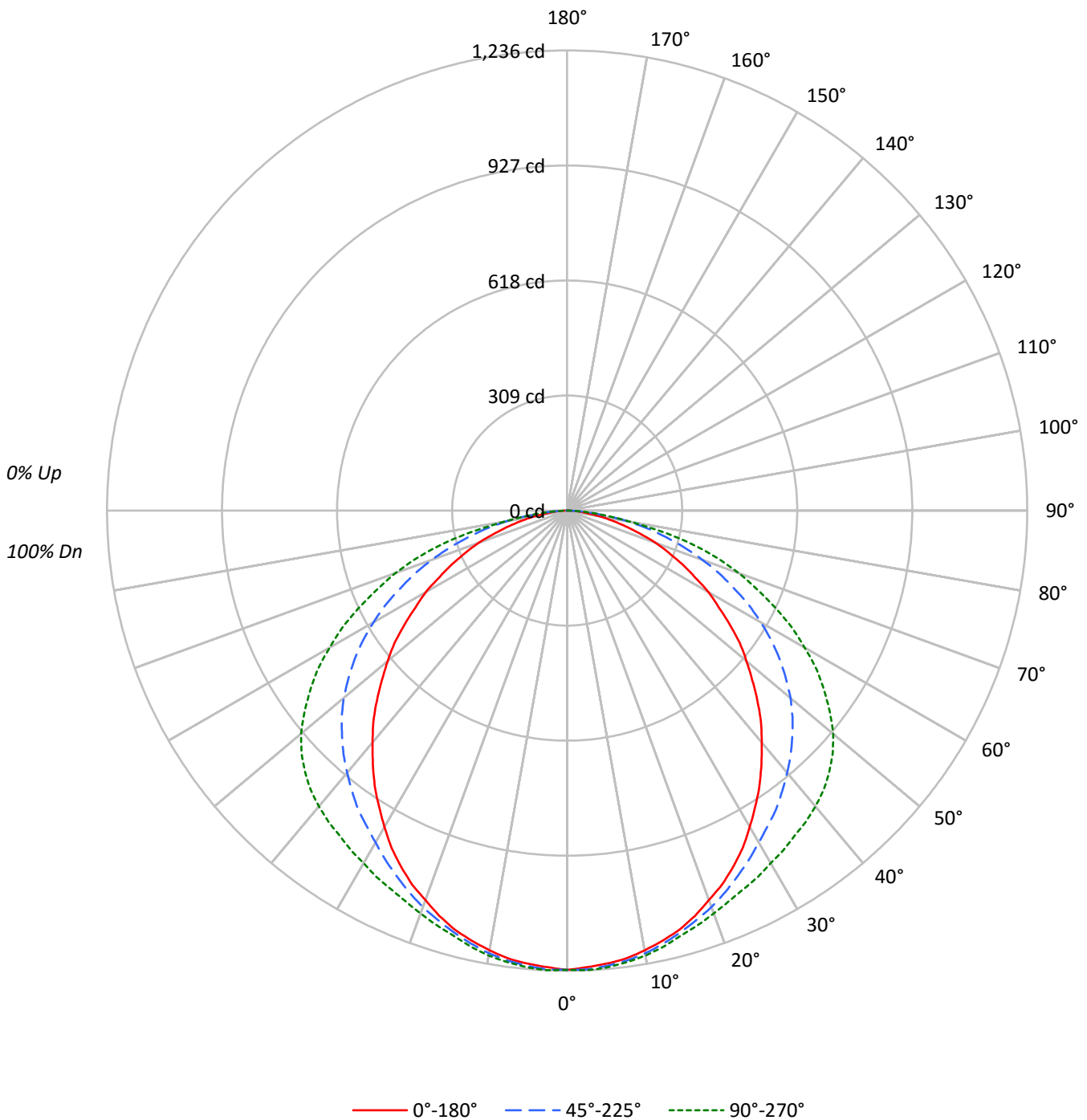
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3320	3320	3320
5°	3300	3316	3327
10°	3278	3300	3316
15°	3247	3269	3292
20°	3188	3246	3298
25°	3134	3217	3330
30°	3049	3198	3397
35°	2961	3217	3500
40°	2856	3229	3644
45°	2751	3254	3788
50°	2632	3278	3907
55°	2499	3270	3955
60°	2361	3233	3967
65°	2167	3149	3927
70°	1985	3041	3860
75°	1666	2853	3602
80°	1365	2545	2607
85°	988	1732	1732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	3.2
10°-20°	331.2	9.0
20°-30°	501.1	13.7
30°-40°	614.0	16.7
40°-50°	660.8	18.0
50°-60°	619.3	16.9
60°-70°	482.5	13.2
70°-80°	279.1	7.6
80°-90°	64.1	1.7
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°	948.8	25.9
0°-40°	1562.8	42.6
0°-60°	2842.9	77.5
0°-90°	3668.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3668.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1222	1224	1228	1230	1232	116
15°	1166	1166	1174	1182	1182	328
25°	1055	1061	1083	1109	1121	486
35°	901	919	979	1041	1065	563
45°	723	757	855	955	995	557
55°	533	591	697	805	843	477
65°	340	398	495	585	617	338
75°	160	208	274	326	346	173
85°	32	48	56	58	56	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1233.6	1233.6	1233.6	1233.6	1233.6
2.5°	1227.6	1229.6	1233.6	1235.6	1235.6
5°	1221.6	1223.6	1227.6	1229.6	1231.6
7.5°	1213.6	1215.6	1219.6	1223.6	1223.6
10°	1199.5	1201.6	1207.6	1211.6	1213.6
12.5°	1183.5	1185.5	1191.5	1195.5	1199.5
15°	1165.5	1165.5	1173.5	1181.5	1181.5
17.5°	1141.5	1145.5	1153.5	1163.5	1167.5
20°	1113.4	1119.4	1133.5	1145.5	1151.5
22.5°	1087.4	1093.4	1109.4	1127.5	1135.5
25°	1055.4	1061.4	1083.4	1109.4	1121.4
27.5°	1021.3	1031.3	1057.4	1095.4	1109.4
30°	981.3	993.3	1029.3	1077.4	1093.4
32.5°	941.2	957.2	1003.3	1061.4	1081.4
35°	901.2	919.2	979.3	1041.3	1065.4
37.5°	857.1	879.1	949.2	1023.3	1053.4
40°	813.0	837.1	919.2	1003.3	1037.3
42.5°	771.0	801.0	889.1	979.3	1019.3
45°	722.9	757.0	855.1	955.2	995.3
47.5°	674.9	716.9	821.1	925.2	967.2
50°	628.8	672.9	783.0	891.2	933.2
52.5°	584.8	630.8	741.0	849.1	889.1
55°	532.7	590.8	696.9	805.0	843.1
57.5°	482.6	540.7	650.8	753.0	795.0
60°	438.6	488.6	600.8	698.9	737.0
62.5°	386.5	440.6	550.7	642.8	680.9
65°	340.4	398.5	494.6	584.8	616.8
67.5°	294.4	344.4	442.6	520.7	550.7
70°	252.3	298.4	386.5	458.6	490.6
72.5°	204.3	252.3	330.4	392.5	422.5
75°	160.2	208.3	274.4	326.4	346.4
77.5°	122.2	164.2	220.3	256.3	260.3
80°	88.1	120.2	164.2	174.2	168.2
82.5°	56.1	82.1	104.1	106.1	106.1
85°	32.0	48.1	56.1	58.1	56.1
87.5°	14.0	18.0	18.0	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)