

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: P220150

Luminaire Tested: **Z3-WG-4L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220150
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-4L35-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: 3266.5 lumens
Efficiency: N/A
Efficacy: 107.1 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

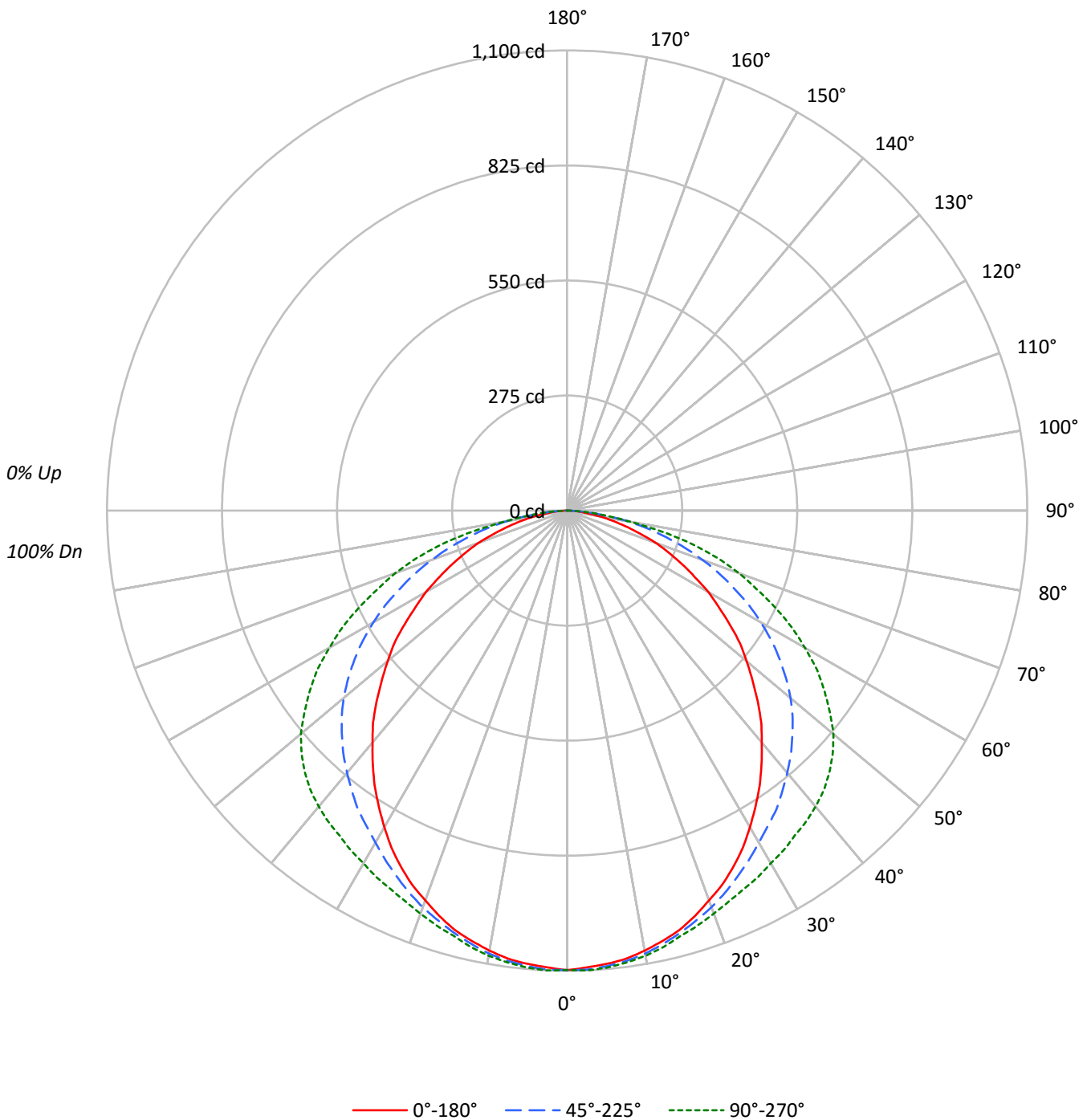
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2956	2956	2956
5°	2938	2952	2962
10°	2919	2938	2953
15°	2891	2911	2931
20°	2839	2890	2936
25°	2790	2864	2965
30°	2715	2848	3025
35°	2636	2864	3116
40°	2543	2875	3244
45°	2450	2898	3373
50°	2344	2919	3478
55°	2225	2911	3522
60°	2102	2879	3532
65°	1930	2804	3497
70°	1768	2707	3437
75°	1483	2540	3208
80°	1216	2266	2321
85°	880	1541	1541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	3.2
10°-20°	294.9	9.0
20°-30°	446.2	13.7
30°-40°	546.7	16.7
40°-50°	588.3	18.0
50°-60°	551.4	16.9
60°-70°	429.7	13.2
70°-80°	248.5	7.6
80°-90°	57.1	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°	844.8	25.9
0°-40°	1391.6	42.6
0°-60°	2531.3	77.5
0°-90°	3266.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3266.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1088	1090	1093	1095	1097	103
15°	1038	1038	1045	1052	1052	292
25°	940	945	965	988	998	432
35°	802	818	872	927	949	501
45°	644	674	761	850	886	496
55°	474	526	620	717	751	425
65°	303	355	440	521	549	301
75°	143	185	244	291	308	154
85°	28	43	50	52	50	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1098.4	1098.4	1098.4	1098.4	1098.4
2.5°	1093.0	1094.8	1098.4	1100.2	1100.2
5°	1087.7	1089.5	1093.0	1094.8	1096.6
7.5°	1080.6	1082.3	1085.9	1089.5	1089.5
10°	1068.1	1069.9	1075.2	1078.8	1080.6
12.5°	1053.8	1055.6	1060.9	1064.5	1068.1
15°	1037.8	1037.8	1044.9	1052.0	1052.0
17.5°	1016.4	1019.9	1027.1	1036.0	1039.6
20°	991.4	996.8	1009.2	1019.9	1025.3
22.5°	968.2	973.6	987.8	1003.9	1011.0
25°	939.7	945.0	964.7	987.8	998.5
27.5°	909.4	918.3	941.5	975.4	987.8
30°	873.7	884.4	916.5	959.3	973.6
32.5°	838.1	852.3	893.3	945.0	962.9
35°	802.4	818.4	871.9	927.2	948.6
37.5°	763.2	782.8	845.2	911.2	937.9
40°	723.9	745.3	818.4	893.3	923.6
42.5°	686.5	713.2	791.7	871.9	907.6
45°	643.7	674.0	761.4	850.5	886.2
47.5°	600.9	638.4	731.1	823.8	861.2
50°	559.9	599.1	697.2	793.5	830.9
52.5°	520.7	561.7	659.7	756.0	791.7
55°	474.3	526.0	620.5	716.8	750.7
57.5°	429.7	481.4	579.5	670.4	707.9
60°	390.5	435.1	534.9	622.3	656.2
62.5°	344.1	392.3	490.4	572.4	606.3
65°	303.1	354.8	440.4	520.7	549.2
67.5°	262.1	306.7	394.1	463.6	490.4
70°	224.7	265.7	344.1	408.3	436.9
72.5°	181.9	224.7	294.2	349.5	376.2
75°	142.6	185.4	244.3	290.6	308.5
77.5°	108.8	146.2	196.1	228.2	231.8
80°	78.5	107.0	146.2	155.1	149.8
82.5°	49.9	73.1	92.7	94.5	94.5
85°	28.5	42.8	49.9	51.7	49.9
87.5°	12.5	16.0	16.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)