

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: P220156

Luminaire Tested: **Z3-WG-4L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220156
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-4L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3369.9 lumens
Efficiency: N/A
Efficacy: 110.5 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

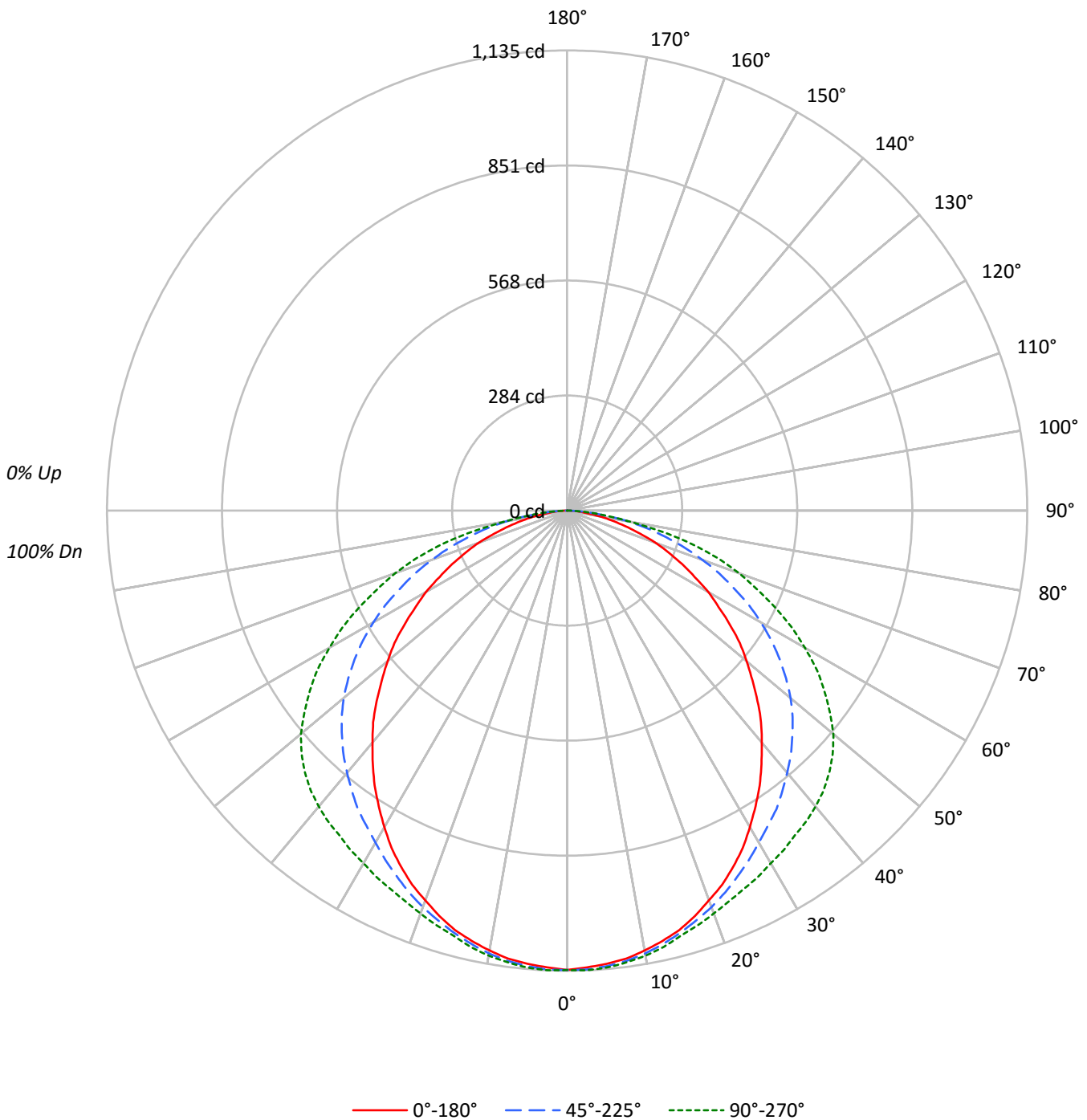
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3049	3049	3049
5°	3031	3046	3056
10°	3011	3031	3046
15°	2983	3003	3024
20°	2929	2982	3029
25°	2878	2955	3059
30°	2801	2938	3121
35°	2719	2955	3215
40°	2623	2966	3347
45°	2527	2989	3479
50°	2418	3011	3589
55°	2296	3003	3633
60°	2168	2970	3643
65°	1991	2893	3608
70°	1824	2793	3546
75°	1530	2620	3308
80°	1254	2337	2394
85°	908	1590	1590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.2
10°-20°	304.2	9.0
20°-30°	460.3	13.7
30°-40°	564.0	16.7
40°-50°	606.9	18.0
50°-60°	568.9	16.9
60°-70°	443.2	13.2
70°-80°	256.3	7.6
80°-90°	58.9	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°	871.6	25.9
0°-40°	1435.6	42.6
0°-60°	2611.4	77.5
0°-90°	3369.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1122	1124	1128	1130	1131	107
15°	1071	1071	1078	1085	1085	301
25°	969	975	995	1019	1030	446
35°	828	844	900	956	979	517
45°	664	695	786	877	914	512
55°	489	543	640	740	774	438
65°	313	366	454	537	567	310
75°	147	191	252	300	318	159
85°	29	44	52	53	52	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.1	1133.1	1133.1	1133.1	1133.1
2.5°	1127.6	1129.5	1133.1	1135.0	1135.0
5°	1122.1	1123.9	1127.6	1129.5	1131.3
7.5°	1114.7	1116.6	1120.3	1123.9	1123.9
10°	1101.9	1103.7	1109.2	1112.9	1114.7
12.5°	1087.2	1089.0	1094.5	1098.2	1101.9
15°	1070.6	1070.6	1078.0	1085.3	1085.3
17.5°	1048.5	1052.2	1059.6	1068.8	1072.4
20°	1022.8	1028.3	1041.2	1052.2	1057.7
22.5°	998.9	1004.4	1019.1	1035.6	1043.0
25°	969.4	974.9	995.2	1019.1	1030.1
27.5°	938.2	947.3	971.3	1006.2	1019.1
30°	901.4	912.4	945.5	989.7	1004.4
32.5°	864.6	879.3	921.6	974.9	993.3
35°	827.8	844.3	899.5	956.5	978.6
37.5°	787.3	807.5	871.9	940.0	967.6
40°	746.8	768.9	844.3	921.6	952.9
42.5°	708.2	735.8	816.7	899.5	936.3
45°	664.1	695.3	785.5	877.4	914.2
47.5°	619.9	658.5	754.2	849.9	888.5
50°	577.6	618.1	719.2	818.6	857.2
52.5°	537.1	579.4	680.6	780.0	816.7
55°	489.3	542.7	640.1	739.5	774.4
57.5°	443.3	496.7	597.8	691.7	730.3
60°	402.9	448.8	551.9	642.0	676.9
62.5°	355.0	404.7	505.9	590.5	625.4
65°	312.7	366.1	454.4	537.1	566.6
67.5°	270.4	316.4	406.5	478.3	505.9
70°	231.8	274.1	355.0	421.2	450.7
72.5°	187.6	231.8	303.5	360.5	388.1
75°	147.2	191.3	252.0	299.8	318.2
77.5°	112.2	150.8	202.3	235.5	239.1
80°	80.9	110.4	150.8	160.0	154.5
82.5°	51.5	75.4	95.7	97.5	97.5
85°	29.4	44.1	51.5	53.3	51.5
87.5°	12.9	16.6	16.6	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)