

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: FAIL-SAFE

Report Number: P835771

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3LO-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835771
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-3LO-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

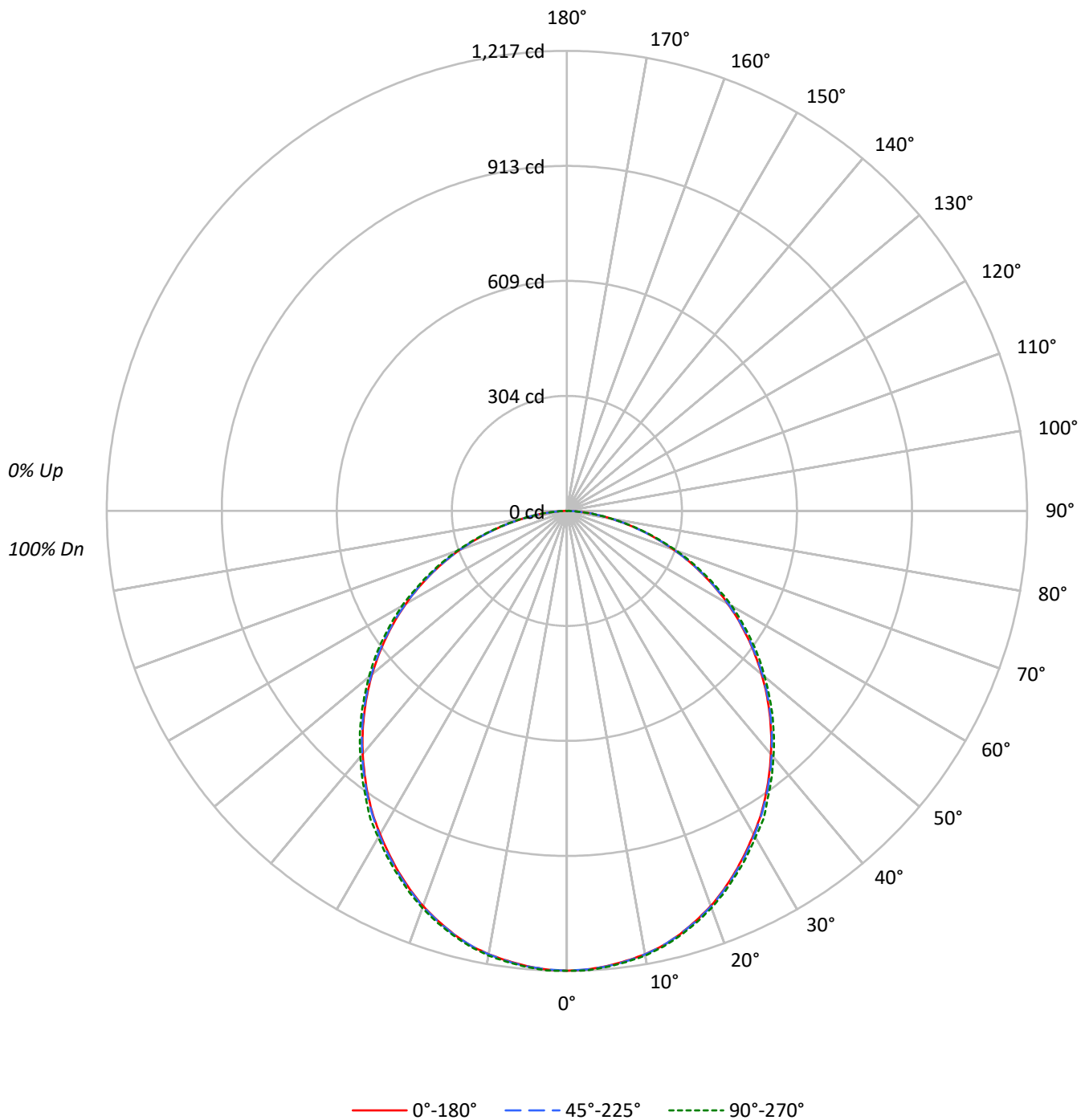
Lumens per Lamp: N/A
Luminaire Lumens: 3287.1 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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: 28.75 FT

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3274	3274	3274
5°	3265	3268	3272
10°	3254	3255	3265
15°	3228	3230	3239
20°	3186	3189	3201
25°	3128	3135	3150
30°	3069	3080	3098
35°	3013	3021	3045
40°	2950	2960	2986
45°	2885	2898	2927
50°	2815	2828	2861
55°	2736	2748	2793
60°	2645	2655	2715
65°	2529	2537	2585
70°	2374	2376	2427
75°	2157	2150	2200
80°	1853	1846	1877
85°	1439	1414	1423

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	3.5
10°-20°	327.0	9.9
20°-30°	486.8	14.8
30°-40°	575.7	17.5
40°-50°	587.7	17.9
50°-60°	524.5	16.0
60°-70°	395.0	12.0
70°-80°	220.3	6.7
80°-90°	55.2	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°	928.7	28.3
0°-40°	1504.4	45.8
0°-60°	2616.6	79.6
0°-90°	3287.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3287.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1209	1211	1210	1210	1211	115
15°	1159	1160	1159	1160	1163	327
25°	1054	1055	1056	1059	1061	485
35°	917	916	920	923	927	574
45°	758	758	761	765	769	585
55°	583	582	586	590	595	521
65°	397	396	398	402	406	393
75°	208	206	207	208	212	220
85°	47	45	46	45	46	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.5	1216.5	1216.5	1216.5	1216.5
2.5°	1214.5	1216.5	1214.0	1214.5	1216.7
5°	1208.7	1210.9	1209.7	1209.9	1211.2
7.5°	1200.6	1203.6	1201.9	1202.4	1203.6
10°	1191.0	1193.3	1191.3	1192.6	1194.8
12.5°	1177.4	1178.4	1177.4	1177.9	1180.5
15°	1158.6	1159.8	1159.3	1160.3	1162.6
17.5°	1136.4	1137.9	1137.6	1139.7	1141.4
20°	1112.5	1112.7	1113.7	1115.7	1117.8
22.5°	1084.3	1085.0	1086.0	1088.8	1090.8
25°	1053.5	1054.8	1056.0	1058.8	1060.8
27.5°	1021.0	1022.3	1024.1	1027.1	1030.4
30°	987.8	987.8	991.1	994.1	997.1
32.5°	954.3	953.0	956.1	959.8	967.1
35°	917.3	916.3	919.5	923.1	926.8
37.5°	878.7	878.0	881.8	885.5	889.1
40°	839.7	838.7	842.5	846.2	850.0
42.5°	799.7	799.1	802.7	806.5	810.5
45°	758.1	757.8	761.4	765.1	769.2
47.5°	715.8	715.3	718.8	722.8	726.4
50°	672.5	672.0	675.5	679.5	683.3
52.5°	627.9	627.9	631.2	634.7	640.5
55°	583.1	582.3	585.8	589.9	595.4
57.5°	537.7	536.7	540.0	544.0	549.1
60°	491.4	490.4	493.4	497.4	504.5
62.5°	444.5	443.0	446.0	449.8	454.1
65°	397.2	395.7	398.4	402.0	406.0
67.5°	349.6	347.8	350.6	353.6	357.4
70°	301.7	300.0	302.0	305.0	308.5
72.5°	254.1	252.4	254.1	255.4	259.7
75°	207.5	205.8	206.8	207.8	211.6
77.5°	162.2	160.4	162.4	163.0	165.2
80°	119.6	117.9	119.1	119.4	121.1
82.5°	80.8	79.3	81.1	79.8	81.4
85°	46.6	45.3	45.8	45.3	46.1
87.5°	18.4	17.4	17.6	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)