

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: P835047

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1HI-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835047
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-1HI-20-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

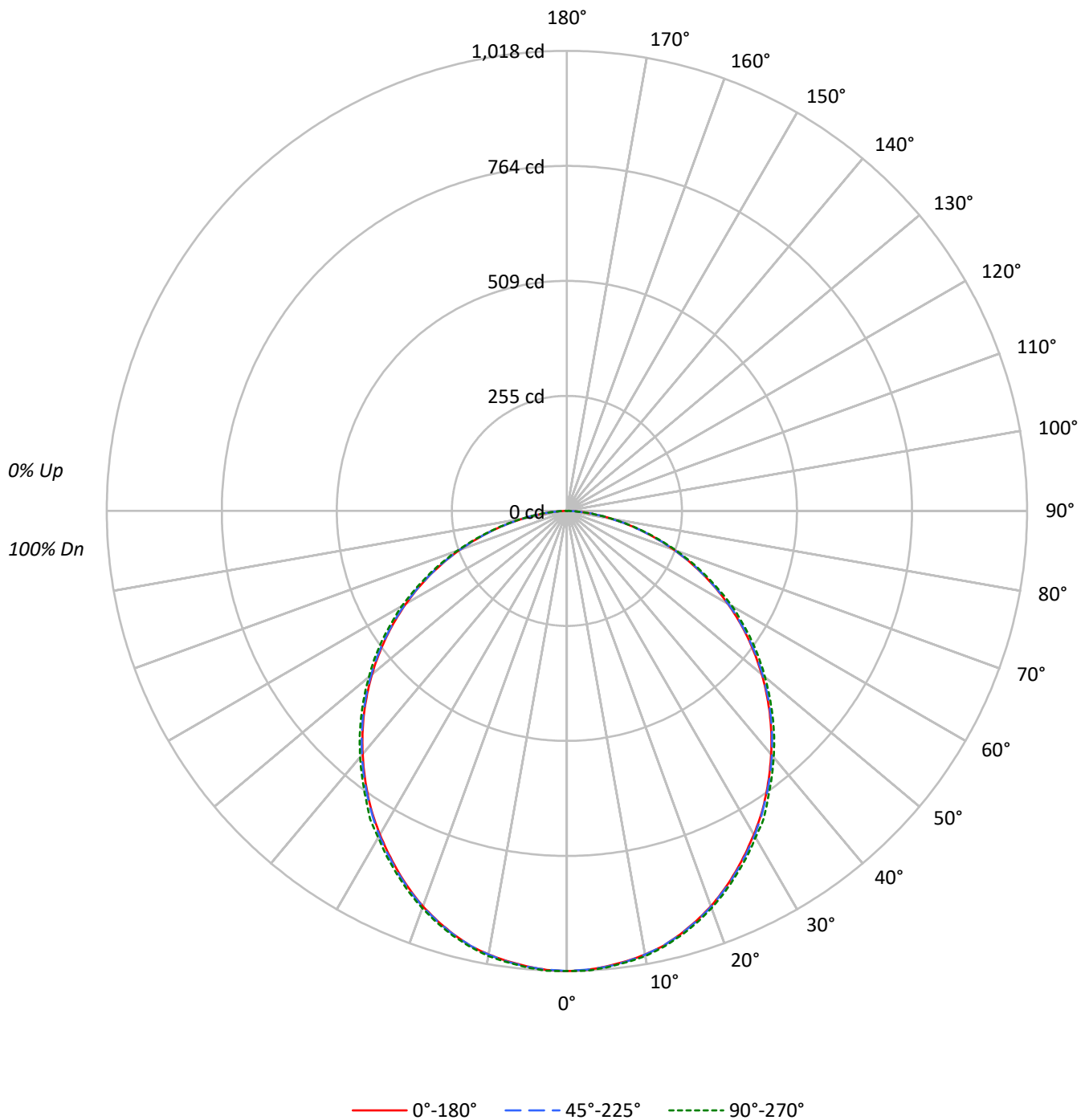
Lumens per Lamp: N/A
Luminaire Lumens: 2751.6 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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

Peachtree City, GA 30269



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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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1370	1370	1370
5°	1367	1368	1369
10°	1362	1362	1367
15°	1351	1352	1356
20°	1333	1335	1340
25°	1309	1312	1318
30°	1285	1289	1297
35°	1261	1264	1274
40°	1235	1239	1250
45°	1208	1213	1225
50°	1178	1184	1197
55°	1145	1150	1169
60°	1107	1111	1136
65°	1059	1062	1082
70°	994	995	1016
75°	903	900	921
80°	776	773	786
85°	602	593	596

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	3.5
10°-20°	273.7	9.9
20°-30°	407.5	14.8
30°-40°	481.9	17.5
40°-50°	491.9	17.9
50°-60°	439.0	16.0
60°-70°	330.7	12.0
70°-80°	184.4	6.7
80°-90°	46.2	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°	777.4	28.3
0°-40°	1259.3	45.8
0°-60°	2190.3	79.6
0°-90°	2751.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2751.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1012	1014	1013	1013	1014	96
15°	970	971	970	971	973	273
25°	882	883	884	886	888	406
35°	768	767	770	773	776	480
45°	635	634	637	640	644	490
55°	488	487	490	494	498	436
65°	332	331	334	336	340	329
75°	174	172	173	174	177	184
85°	39	38	38	38	39	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1018.3	1018.3	1018.3	1018.3	1018.3
2.5°	1016.6	1018.3	1016.2	1016.6	1018.5
5°	1011.8	1013.7	1012.6	1012.8	1013.9
7.5°	1005.0	1007.6	1006.1	1006.5	1007.6
10°	997.0	998.9	997.2	998.3	1000.2
12.5°	985.6	986.5	985.6	986.1	988.2
15°	969.8	970.9	970.5	971.3	973.2
17.5°	951.3	952.5	952.3	954.0	955.5
20°	931.2	931.4	932.3	934.0	935.7
22.5°	907.6	908.3	909.1	911.4	913.1
25°	881.9	883.0	884.0	886.3	888.0
27.5°	854.7	855.8	857.2	859.8	862.5
30°	826.9	826.9	829.6	832.1	834.7
32.5°	798.8	797.8	800.3	803.5	809.6
35°	767.8	767.0	769.7	772.7	775.9
37.5°	735.6	735.0	738.1	741.3	744.2
40°	702.9	702.1	705.2	708.4	711.6
42.5°	669.4	669.0	671.9	675.1	678.5
45°	634.6	634.4	637.3	640.5	643.9
47.5°	599.2	598.8	601.7	605.1	608.0
50°	562.9	562.5	565.4	568.8	572.0
52.5°	525.6	525.6	528.3	531.3	536.1
55°	488.1	487.4	490.4	493.8	498.4
57.5°	450.1	449.3	452.0	455.4	459.6
60°	411.3	410.5	413.0	416.4	422.3
62.5°	372.1	370.9	373.4	376.5	380.1
65°	332.5	331.2	333.5	336.5	339.9
67.5°	292.6	291.2	293.5	296.0	299.2
70°	252.6	251.1	252.8	255.3	258.3
72.5°	212.7	211.3	212.7	213.8	217.4
75°	173.7	172.2	173.1	173.9	177.1
77.5°	135.8	134.3	136.0	136.4	138.3
80°	100.1	98.7	99.7	99.9	101.4
82.5°	67.7	66.4	67.9	66.8	68.1
85°	39.0	37.9	38.4	37.9	38.6
87.5°	15.4	14.5	14.8	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)