

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: P835633

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5LO-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835633
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-LD4-5LO-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

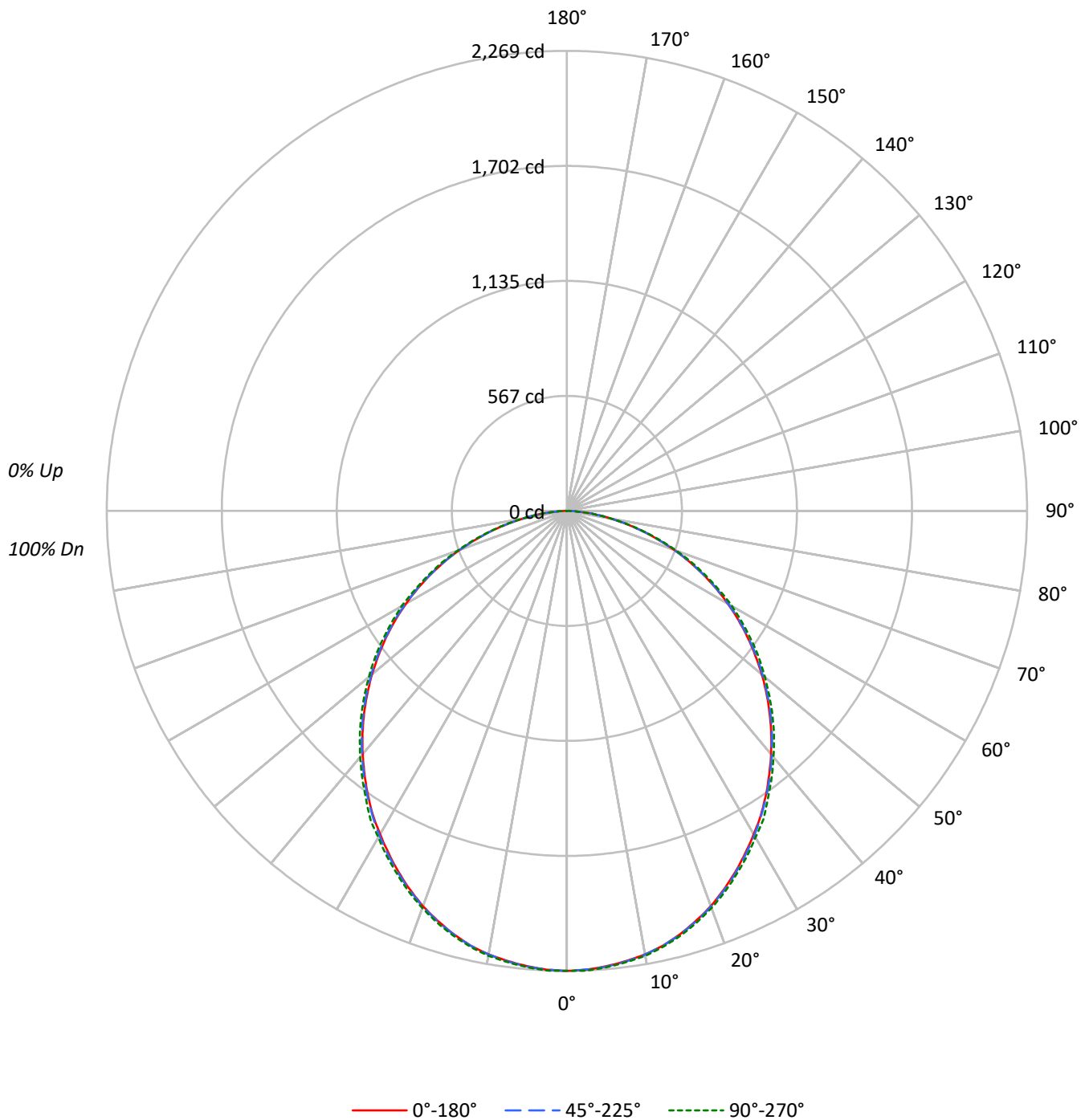
Lumens per Lamp: N/A
Luminaire Lumens: 6130.4 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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: 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6105	6105	6105
5°	6089	6094	6102
10°	6070	6071	6089
15°	6020	6023	6040
20°	5941	5948	5970
25°	5834	5848	5874
30°	5724	5743	5778
35°	5620	5634	5679
40°	5501	5519	5569
45°	5381	5404	5459
50°	5250	5274	5335
55°	5102	5126	5210
60°	4932	4952	5063
65°	4716	4732	4821
70°	4427	4431	4527
75°	4024	4009	4103
80°	3457	3443	3501
85°	2683	2640	2655

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	3.5
10°-20°	609.8	9.9
20°-30°	907.9	14.8
30°-40°	1073.6	17.5
40°-50°	1096.0	17.9
50°-60°	978.1	16.0
60°-70°	736.7	12.0
70°-80°	410.9	6.7
80°-90°	102.9	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°	1732.1	28.3
0°-40°	2805.7	45.8
0°-60°	4879.9	79.6
0°-90°	6130.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6130.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2269	2269	2269	2269	2269	
5°	2254	2258	2256	2256	2259	214
15°	2161	2163	2162	2164	2168	609
25°	1965	1967	1970	1975	1978	905
35°	1711	1709	1715	1722	1729	1070
45°	1414	1413	1420	1427	1434	1091
55°	1087	1086	1093	1100	1110	972
65°	741	738	743	750	757	733
75°	387	384	386	388	395	410
85°	87	84	86	84	86	104
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2268.7	2268.7	2268.7	2268.7	2268.7
2.5°	2265.0	2268.7	2264.0	2265.0	2269.2
5°	2254.2	2258.4	2256.1	2256.5	2258.9
7.5°	2239.2	2244.8	2241.5	2242.4	2244.8
10°	2221.3	2225.5	2221.8	2224.1	2228.3
12.5°	2195.9	2197.8	2195.9	2196.9	2201.6
15°	2160.7	2163.1	2162.1	2164.0	2168.2
17.5°	2119.4	2122.2	2121.7	2125.5	2128.8
20°	2074.7	2075.2	2077.1	2080.9	2084.6
22.5°	2022.1	2023.5	2025.4	2030.6	2034.4
25°	1964.8	1967.2	1969.5	1974.7	1978.5
27.5°	1904.2	1906.6	1909.9	1915.5	1921.6
30°	1842.2	1842.2	1848.3	1854.0	1859.6
32.5°	1779.8	1777.4	1783.1	1790.1	1803.7
35°	1710.7	1708.8	1714.9	1721.5	1728.6
37.5°	1638.8	1637.4	1644.5	1651.5	1658.1
40°	1566.0	1564.2	1571.2	1578.3	1585.3
42.5°	1491.4	1490.4	1497.0	1504.0	1511.6
45°	1413.9	1413.4	1420.0	1427.0	1434.5
47.5°	1334.9	1334.0	1340.6	1348.1	1354.7
50°	1254.1	1253.2	1259.8	1267.3	1274.3
52.5°	1171.0	1171.0	1177.1	1183.7	1194.5
55°	1087.4	1086.0	1092.6	1100.1	1110.4
57.5°	1002.9	1001.0	1007.1	1014.6	1024.0
60°	916.4	914.5	920.2	927.7	940.8
62.5°	829.1	826.2	831.9	838.9	846.9
65°	740.7	737.9	743.1	749.7	757.2
67.5°	652.0	648.7	653.8	659.5	666.5
70°	562.7	559.4	563.2	568.8	575.4
72.5°	473.9	470.7	473.9	476.3	484.3
75°	387.0	383.8	385.6	387.5	394.6
77.5°	302.5	299.2	303.0	303.9	308.1
80°	223.1	219.8	222.2	222.6	225.9
82.5°	150.8	148.0	151.2	148.9	151.7
85°	86.9	84.5	85.5	84.5	86.0
87.5°	34.3	32.4	32.9	31.0	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)