

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: P487186

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2LO-20-120-EDD-90**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P487186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab: INNOVATION CENTER
Issue Date: 3/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-A125-LD4-2LO-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

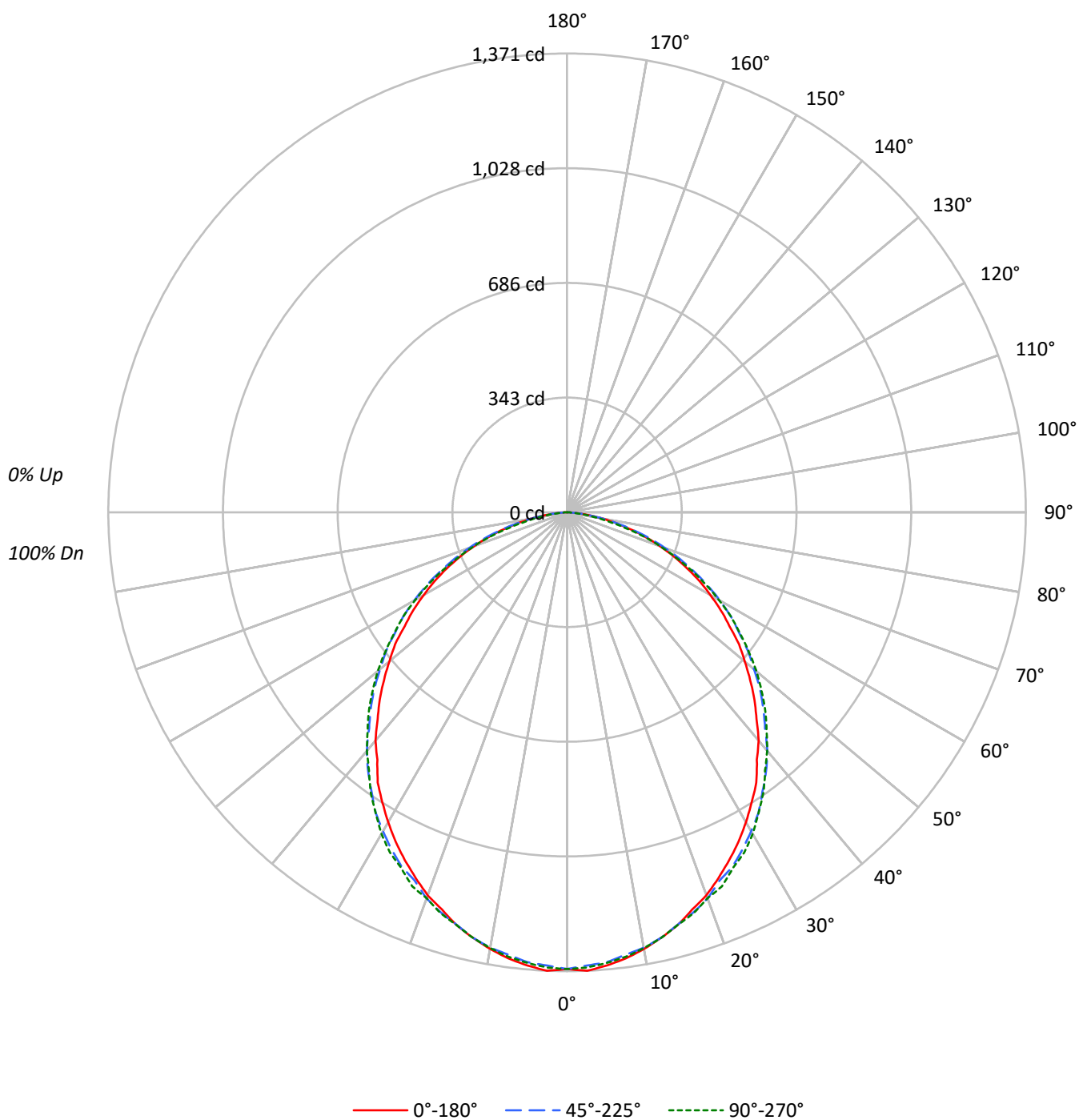
Lumens per Lamp: N/A
Luminaire Lumens: 3504.6 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
Input Voltage (V): NR
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			
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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1836	1836	1836
5°	1836	1823	1826
10°	1810	1804	1806
15°	1779	1777	1778
20°	1743	1758	1757
25°	1702	1735	1741
30°	1661	1709	1723
35°	1620	1673	1680
40°	1564	1635	1634
45°	1507	1578	1594
50°	1451	1526	1546
55°	1389	1472	1480
60°	1331	1419	1409
65°	1261	1332	1306
70°	1162	1224	1168
75°	1028	1070	935
80°	827	838	653
85°	542	519	380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.7
10°-20°	360.6	10.3
20°-30°	536.9	15.3
30°-40°	632.0	18.0
40°-50°	633.6	18.1
50°-60°	555.6	15.9
60°-70°	406.3	11.6
70°-80°	209.4	6.0
80°-90°	42.0	1.2
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°	1025.7	29.3
0°-40°	1657.7	47.3
0°-60°	2846.9	81.2
0°-90°	3504.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3504.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1359	1350	1350	1358	1352	129
15°	1277	1279	1276	1284	1276	359
25°	1147	1152	1169	1185	1173	528
35°	986	991	1018	1030	1023	614
45°	792	796	830	840	838	611
55°	592	606	627	636	631	532
65°	396	405	418	417	410	392
75°	198	199	206	192	180	209
85°	35	34	34	27	25	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1364.4	1364.4	1364.4	1364.4	1364.4
2.5°	1371.1	1364.4	1355.5	1362.9	1361.4
5°	1359.2	1350.2	1349.5	1358.5	1351.7
7.5°	1344.3	1342.8	1333.8	1343.5	1339.8
10°	1324.9	1323.4	1320.4	1327.1	1321.9
12.5°	1301.8	1300.3	1301.8	1305.5	1301.8
15°	1277.1	1279.4	1275.6	1283.9	1276.4
17.5°	1244.3	1246.6	1254.0	1257.0	1256.3
20°	1217.5	1219.0	1227.9	1239.8	1227.2
22.5°	1182.4	1186.1	1190.6	1212.2	1209.3
25°	1146.6	1151.8	1169.0	1185.4	1172.7
27.5°	1109.3	1114.5	1135.4	1147.3	1145.8
30°	1069.0	1074.2	1100.3	1116.8	1109.3
32.5°	1027.2	1036.2	1064.5	1078.7	1064.5
35°	986.2	990.7	1018.3	1029.5	1022.8
37.5°	931.7	948.9	976.5	984.0	972.0
40°	890.7	891.5	931.0	931.0	930.3
42.5°	837.7	849.7	875.8	890.0	882.5
45°	792.2	796.0	829.5	840.0	837.7
47.5°	742.3	757.2	781.8	793.7	787.8
50°	693.0	703.5	728.8	744.5	738.5
52.5°	647.5	655.7	681.8	690.8	684.8
55°	592.3	605.7	627.4	636.3	631.1
57.5°	544.6	554.3	581.1	584.1	581.1
60°	494.6	505.8	527.4	529.7	523.7
62.5°	446.8	454.3	473.7	474.5	467.7
65°	396.1	405.1	418.5	417.0	410.3
67.5°	346.1	352.1	364.8	359.6	352.1
70°	295.4	300.6	311.1	303.6	296.9
72.5°	246.2	249.9	258.9	247.7	239.5
75°	197.7	199.2	205.9	191.7	179.8
77.5°	149.9	151.4	155.2	141.0	127.6
80°	106.7	106.7	108.2	93.2	84.3
82.5°	67.1	67.1	66.4	55.2	50.0
85°	35.1	34.3	33.6	26.9	24.6
87.5°	12.7	12.7	10.4	9.7	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)