

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: P487139

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1HI-20-120-EDD**

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: P487139
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-LD4-1HI-20-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

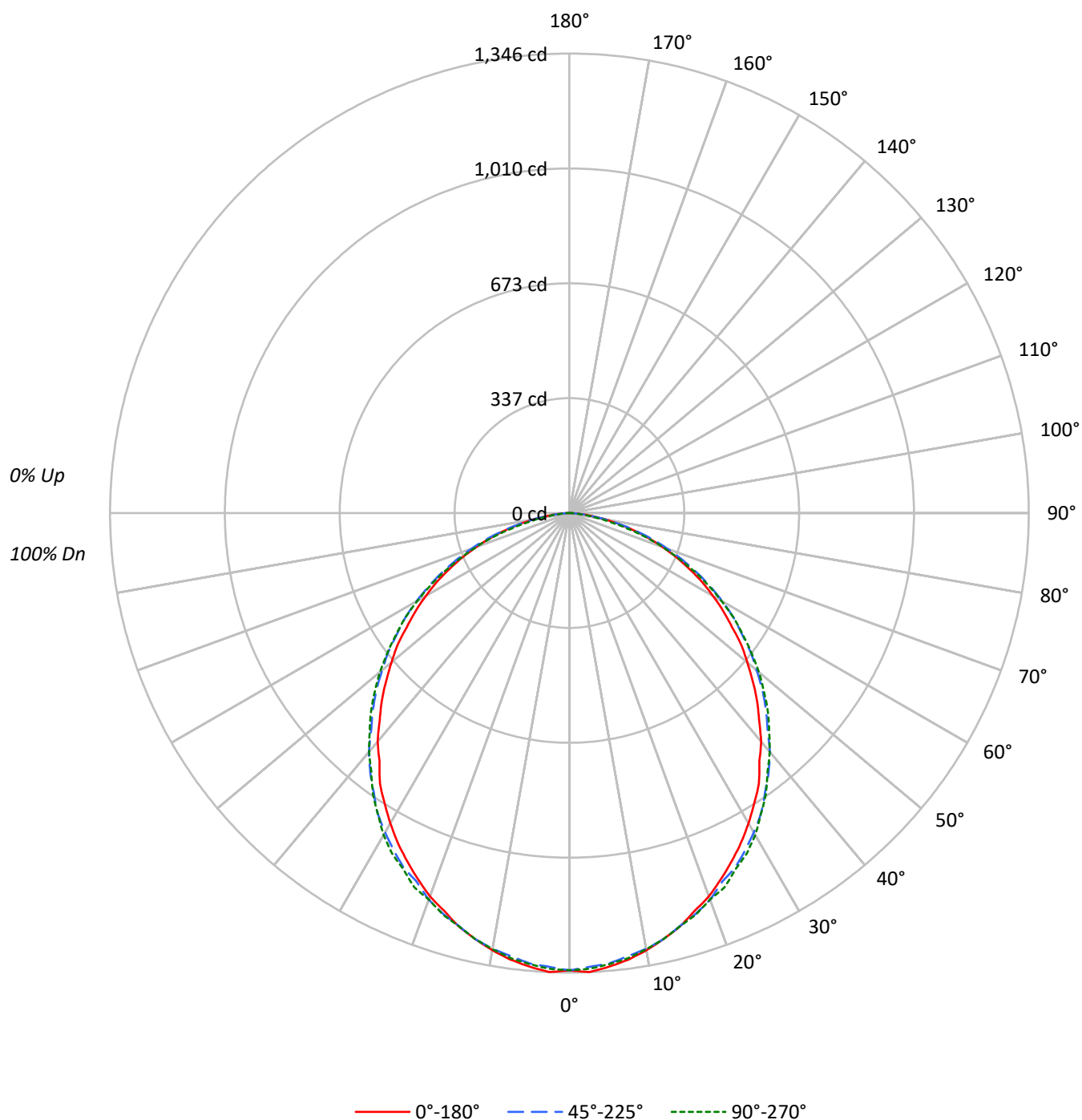
Lumens per Lamp: N/A
Luminaire Lumens: 3439.8 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1802	1802	1802
5°	1802	1789	1792
10°	1777	1771	1773
15°	1746	1744	1745
20°	1711	1726	1725
25°	1671	1703	1709
30°	1630	1678	1692
35°	1590	1642	1649
40°	1535	1605	1604
45°	1480	1549	1565
50°	1424	1497	1517
55°	1364	1445	1453
60°	1306	1393	1383
65°	1238	1308	1282
70°	1141	1201	1146
75°	1009	1051	918
80°	811	823	641
85°	531	508	374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	3.7
10°-20°	353.9	10.3
20°-30°	527.0	15.3
30°-40°	620.3	18.0
40°-50°	621.9	18.1
50°-60°	545.3	15.9
60°-70°	398.8	11.6
70°-80°	205.5	6.0
80°-90°	41.2	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°	1006.8	29.3
0°-40°	1627.0	47.3
0°-60°	2794.3	81.2
0°-90°	3439.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3439.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1334	1325	1324	1333	1327	126
15°	1254	1256	1252	1260	1253	353
25°	1125	1130	1147	1164	1151	518
35°	968	972	1000	1010	1004	603
45°	778	781	814	824	822	599
55°	581	594	616	625	619	522
65°	389	398	411	409	403	385
75°	194	196	202	188	176	206
85°	34	34	33	26	24	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.2	1339.2	1339.2	1339.2	1339.2
2.5°	1345.8	1339.2	1330.4	1337.7	1336.3
5°	1334.1	1325.3	1324.5	1333.3	1326.7
7.5°	1319.4	1318.0	1309.2	1318.7	1315.0
10°	1300.4	1298.9	1296.0	1302.6	1297.5
12.5°	1277.7	1276.2	1277.7	1281.3	1277.7
15°	1253.5	1255.7	1252.1	1260.1	1252.8
17.5°	1221.3	1223.5	1230.8	1233.8	1233.0
20°	1194.9	1196.4	1205.2	1216.9	1204.5
22.5°	1160.5	1164.2	1168.6	1189.8	1186.9
25°	1125.4	1130.5	1147.4	1163.5	1151.0
27.5°	1088.8	1093.9	1114.4	1126.1	1124.7
30°	1049.2	1054.4	1080.0	1096.1	1088.8
32.5°	1008.2	1017.0	1044.8	1058.8	1044.8
35°	968.0	972.4	999.5	1010.4	1003.8
37.5°	914.5	931.4	958.4	965.8	954.1
40°	874.2	875.0	913.8	913.8	913.1
42.5°	822.3	834.0	859.6	873.5	866.2
45°	777.6	781.3	814.2	824.5	822.3
47.5°	728.5	743.2	767.3	779.1	773.2
50°	680.2	690.5	715.4	730.7	724.9
52.5°	635.5	643.6	669.2	678.0	672.2
55°	581.4	594.5	615.8	624.6	619.4
57.5°	534.5	544.0	570.4	573.3	570.4
60°	485.4	496.4	517.7	519.9	514.0
62.5°	438.6	445.9	464.9	465.7	459.1
65°	388.8	397.6	410.8	409.3	402.7
67.5°	339.7	345.6	358.0	352.9	345.6
70°	290.0	295.1	305.3	298.0	291.4
72.5°	241.6	245.3	254.1	243.1	235.0
75°	194.0	195.5	202.1	188.2	176.5
77.5°	147.2	148.6	152.3	138.4	125.2
80°	104.7	104.7	106.2	91.5	82.7
82.5°	65.9	65.9	65.2	54.2	49.1
85°	34.4	33.7	32.9	26.4	24.2
87.5°	12.4	12.4	10.3	9.5	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)