

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: P487138

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1HI-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: P487138
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-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

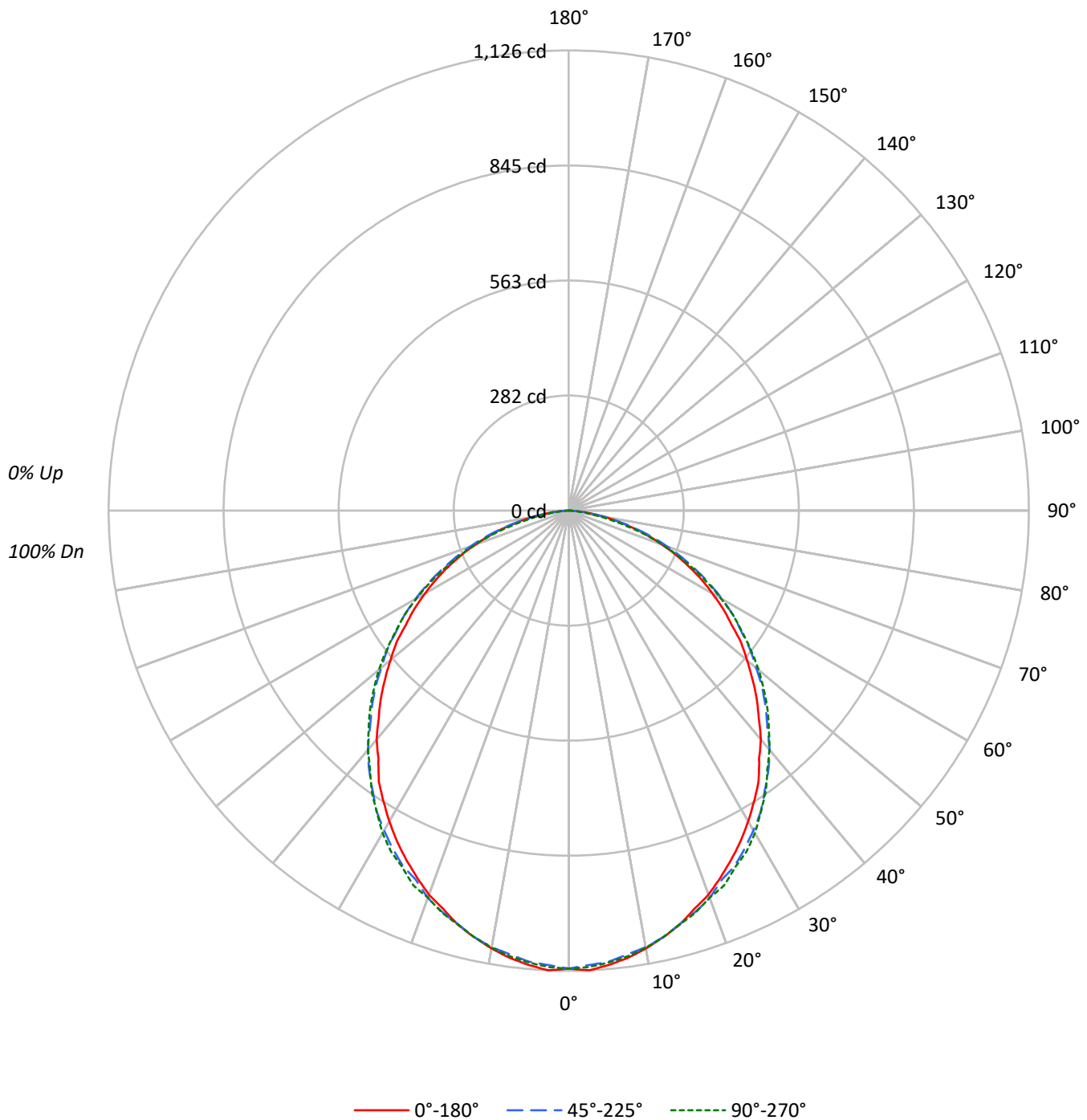
Lumens per Lamp: N/A
Luminaire Lumens: 2878.3 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					0
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°	1508	1508	1508
5°	1508	1497	1499
10°	1487	1482	1483
15°	1461	1459	1460
20°	1432	1444	1443
25°	1398	1425	1430
30°	1364	1404	1416
35°	1330	1374	1380
40°	1285	1343	1342
45°	1238	1296	1309
50°	1191	1253	1270
55°	1141	1209	1216
60°	1093	1166	1157
65°	1036	1094	1073
70°	954	1005	959
75°	844	879	768
80°	679	688	536
85°	445	426	312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	3.7
10°-20°	296.2	10.3
20°-30°	440.9	15.3
30°-40°	519.0	18.0
40°-50°	520.4	18.1
50°-60°	456.3	15.9
60°-70°	333.7	11.6
70°-80°	172.0	6.0
80°-90°	34.5	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°	842.4	29.3
0°-40°	1361.5	47.3
0°-60°	2338.2	81.2
0°-90°	2878.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1121	1121	1121	1121	1121	
5°	1116	1109	1108	1116	1110	106
15°	1049	1051	1048	1054	1048	295
25°	942	946	960	974	963	434
35°	810	814	836	846	840	504
45°	651	654	681	690	688	501
55°	486	498	515	523	518	437
65°	325	333	344	342	337	322
75°	162	164	169	158	148	172
85°	29	28	28	22	20	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.6	1120.6	1120.6	1120.6	1120.6
2.5°	1126.1	1120.6	1113.2	1119.4	1118.1
5°	1116.3	1108.9	1108.3	1115.7	1110.2
7.5°	1104.0	1102.8	1095.5	1103.4	1100.4
10°	1088.1	1086.9	1084.4	1090.0	1085.7
12.5°	1069.1	1067.9	1069.1	1072.2	1069.1
15°	1048.9	1050.7	1047.7	1054.4	1048.3
17.5°	1021.9	1023.8	1029.9	1032.4	1031.7
20°	999.9	1001.1	1008.5	1018.3	1007.9
22.5°	971.1	974.2	977.8	995.6	993.1
25°	941.7	946.0	960.1	973.5	963.1
27.5°	911.1	915.3	932.5	942.3	941.1
30°	878.0	882.3	903.7	917.2	911.1
32.5°	843.7	851.0	874.3	885.9	874.3
35°	810.0	813.6	836.3	845.5	840.0
37.5°	765.2	779.3	802.0	808.1	798.3
40°	731.5	732.1	764.6	764.6	764.0
42.5°	688.0	697.8	719.3	730.9	724.8
45°	650.7	653.7	681.3	689.9	688.0
47.5°	609.6	621.9	642.1	651.9	647.0
50°	569.2	577.8	598.6	611.5	606.6
52.5°	531.8	538.5	560.0	567.3	562.4
55°	486.5	497.5	515.3	522.6	518.3
57.5°	447.3	455.2	477.3	479.7	477.3
60°	406.2	415.4	433.2	435.0	430.1
62.5°	367.0	373.1	389.1	389.7	384.1
65°	325.3	332.7	343.7	342.5	337.0
67.5°	284.3	289.2	299.6	295.3	289.2
70°	242.6	246.9	255.5	249.4	243.8
72.5°	202.2	205.2	212.6	203.4	196.7
75°	162.4	163.6	169.1	157.5	147.7
77.5°	123.1	124.4	127.4	115.8	104.8
80°	87.6	87.6	88.8	76.6	69.2
82.5°	55.1	55.1	54.5	45.3	41.0
85°	28.8	28.2	27.6	22.1	20.2
87.5°	10.4	10.4	8.6	8.0	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)