

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: P487161

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1LO-50-120-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: P487161
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-LD4-1LO-50-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

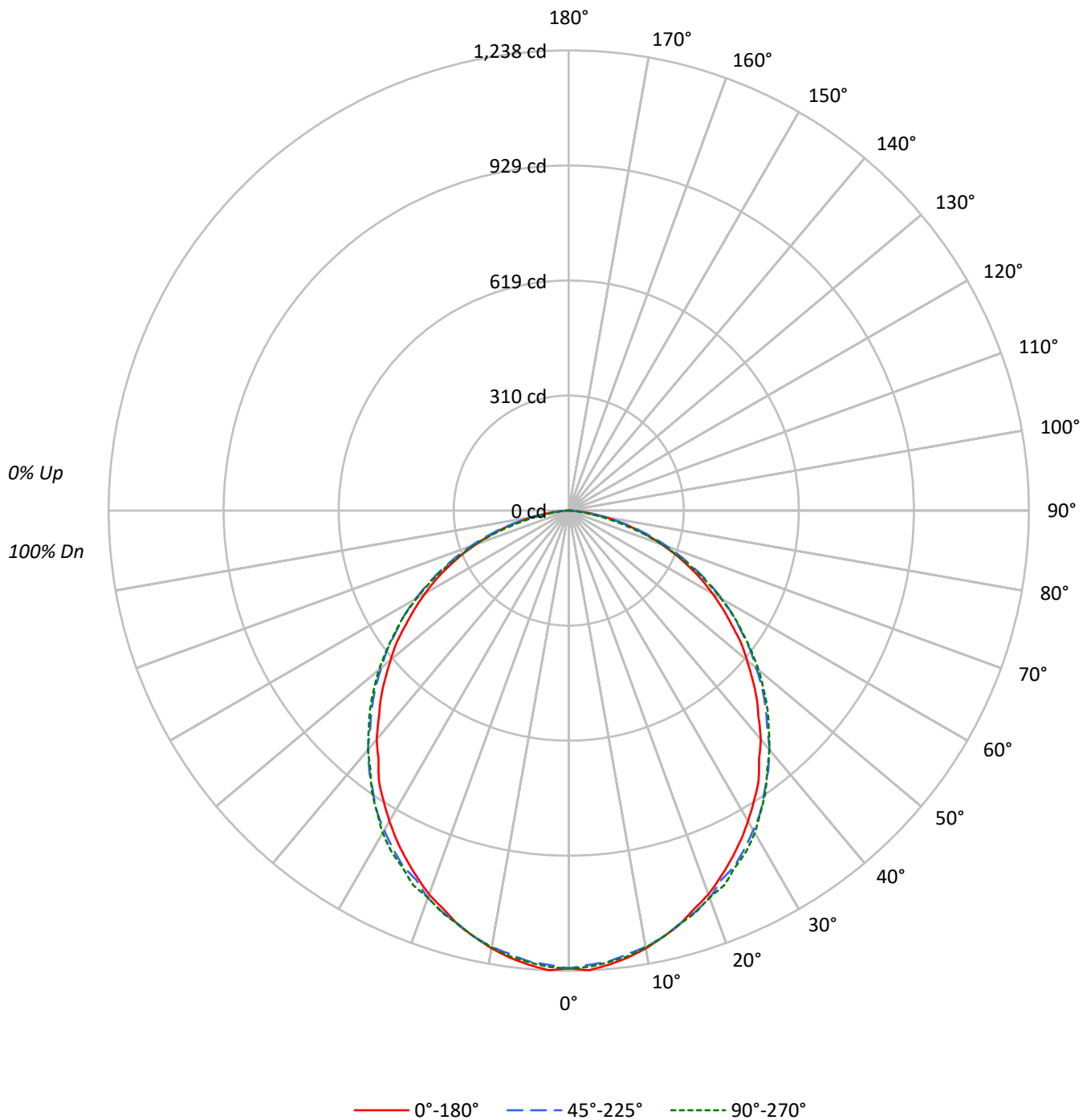
Lumens per Lamp: N/A
Luminaire Lumens: 3163.2 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	1657	1657	1657
5°	1657	1645	1648
10°	1634	1628	1630
15°	1606	1604	1605
20°	1573	1587	1586
25°	1536	1566	1571
30°	1499	1543	1556
35°	1462	1510	1516
40°	1412	1476	1475
45°	1361	1425	1439
50°	1309	1377	1395
55°	1254	1328	1336
60°	1201	1281	1272
65°	1138	1202	1179
70°	1049	1105	1054
75°	927	966	844
80°	746	756	590
85°	488	468	343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	3.7
10°-20°	325.5	10.3
20°-30°	484.6	15.3
30°-40°	570.4	18.0
40°-50°	571.9	18.1
50°-60°	501.5	15.9
60°-70°	366.7	11.6
70°-80°	189.0	6.0
80°-90°	37.9	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°	925.8	29.3
0°-40°	1496.2	47.3
0°-60°	2569.6	81.2
0°-90°	3163.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3163.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1227	1219	1218	1226	1220	116
15°	1153	1155	1151	1159	1152	324
25°	1035	1040	1055	1070	1058	477
35°	890	894	919	929	923	554
45°	715	718	749	758	756	551
55°	535	547	566	574	570	480
65°	358	366	378	376	370	354
75°	178	180	186	173	162	189
85°	32	31	30	24	22	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.5	1231.5	1231.5	1231.5	1231.5
2.5°	1237.6	1231.5	1223.4	1230.2	1228.8
5°	1226.8	1218.7	1218.0	1226.1	1220.1
7.5°	1213.3	1212.0	1203.9	1212.7	1209.3
10°	1195.8	1194.5	1191.8	1197.8	1193.1
12.5°	1174.9	1173.6	1174.9	1178.3	1174.9
15°	1152.7	1154.7	1151.4	1158.8	1152.1
17.5°	1123.1	1125.1	1131.9	1134.5	1133.9
20°	1098.9	1100.2	1108.3	1119.1	1107.6
22.5°	1067.2	1070.6	1074.6	1094.1	1091.5
25°	1034.9	1039.6	1055.1	1069.9	1058.5
27.5°	1001.2	1005.9	1024.8	1035.6	1034.2
30°	964.9	969.6	993.1	1008.0	1001.2
32.5°	927.2	935.2	960.8	973.6	960.8
35°	890.1	894.2	919.1	929.2	923.1
37.5°	841.0	856.5	881.4	888.1	877.3
40°	803.9	804.6	840.3	840.3	839.6
42.5°	756.1	766.9	790.5	803.3	796.5
45°	715.1	718.4	748.7	758.2	756.1
47.5°	670.0	683.4	705.6	716.4	711.0
50°	625.5	634.9	657.8	672.0	666.6
52.5°	584.4	591.8	615.4	623.5	618.1
55°	534.6	546.7	566.3	574.3	569.6
57.5°	491.5	500.3	524.5	527.2	524.5
60°	446.4	456.5	476.0	478.1	472.7
62.5°	403.3	410.1	427.6	428.2	422.2
65°	357.5	365.6	377.7	376.4	370.3
67.5°	312.4	317.8	329.3	324.5	317.8
70°	266.6	271.3	280.8	274.0	268.0
72.5°	222.2	225.6	233.6	223.5	216.1
75°	178.4	179.8	185.8	173.0	162.3
77.5°	135.3	136.7	140.1	127.3	115.1
80°	96.3	96.3	97.6	84.2	76.1
82.5°	60.6	60.6	59.9	49.8	45.1
85°	31.6	31.0	30.3	24.2	22.2
87.5°	11.4	11.4	9.4	8.8	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)