

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: P487157

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1LO-35-120-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: P487157
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-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

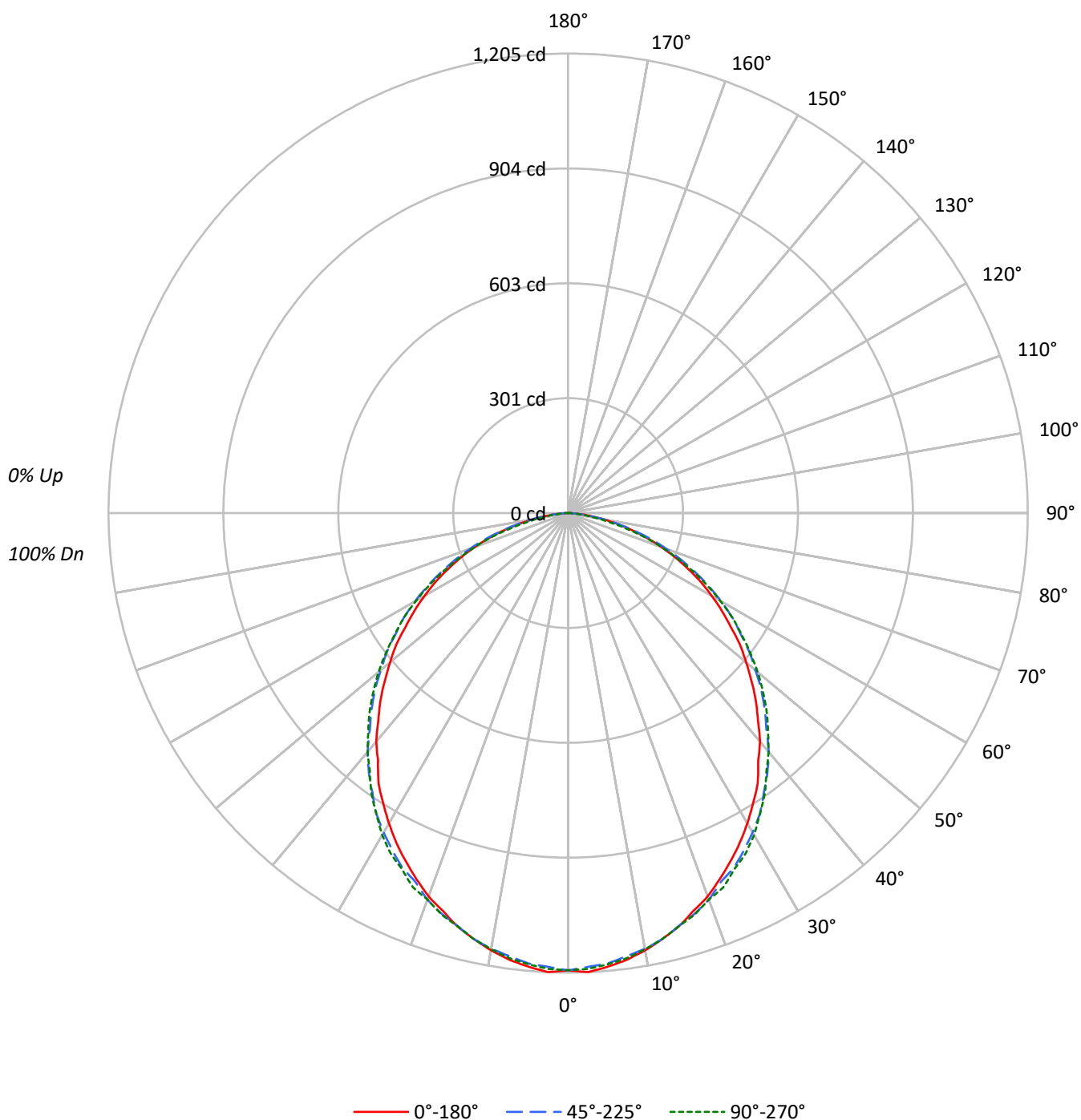
Lumens per Lamp: N/A
Luminaire Lumens: 3079.7 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					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°	1613	1613	1613
5°	1613	1602	1604
10°	1591	1585	1587
15°	1563	1562	1562
20°	1532	1545	1544
25°	1496	1525	1530
30°	1459	1502	1514
35°	1423	1470	1476
40°	1375	1437	1436
45°	1325	1387	1401
50°	1275	1341	1358
55°	1221	1293	1301
60°	1169	1247	1238
65°	1108	1171	1148
70°	1021	1076	1026
75°	903	940	821
80°	726	737	574
85°	475	455	333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	3.7
10°-20°	316.9	10.3
20°-30°	471.8	15.3
30°-40°	555.3	18.0
40°-50°	556.8	18.1
50°-60°	488.3	15.9
60°-70°	357.0	11.6
70°-80°	184.0	6.0
80°-90°	36.9	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°	901.4	29.3
0°-40°	1456.7	47.3
0°-60°	2501.8	81.2
0°-90°	3079.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3079.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1194	1186	1186	1194	1188	113
15°	1122	1124	1121	1128	1122	316
25°	1008	1012	1027	1042	1030	464
35°	867	871	895	905	899	540
45°	696	700	729	738	736	537
55°	520	532	551	559	555	467
65°	348	356	368	366	361	344
75°	174	175	181	168	158	184
85°	31	30	30	24	22	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1199.0	1199.0	1199.0	1199.0	1199.0
2.5°	1204.9	1199.0	1191.1	1197.7	1196.4
5°	1194.4	1186.5	1185.9	1193.8	1187.9
7.5°	1181.3	1180.0	1172.1	1180.6	1177.4
10°	1164.3	1162.9	1160.3	1166.2	1161.6
12.5°	1143.9	1142.6	1143.9	1147.2	1143.9
15°	1122.3	1124.3	1121.0	1128.2	1121.6
17.5°	1093.5	1095.4	1102.0	1104.6	1103.9
20°	1069.9	1071.2	1079.0	1089.5	1078.4
22.5°	1039.0	1042.3	1046.3	1065.3	1062.6
25°	1007.6	1012.2	1027.2	1041.7	1030.5
27.5°	974.8	979.4	997.7	1008.2	1006.9
30°	939.4	944.0	966.9	981.4	974.8
32.5°	902.7	910.6	935.5	947.9	935.5
35°	866.6	870.6	894.8	904.7	898.8
37.5°	818.8	833.9	858.1	864.7	854.2
40°	782.7	783.4	818.1	818.1	817.5
42.5°	736.2	746.7	769.6	782.1	775.5
45°	696.2	699.5	729.0	738.1	736.2
47.5°	652.3	665.4	687.0	697.5	692.3
50°	609.0	618.2	640.5	654.2	649.0
52.5°	569.0	576.2	599.2	607.0	601.8
55°	520.5	532.3	551.3	559.2	554.6
57.5°	478.5	487.1	510.7	513.3	510.7
60°	434.6	444.5	463.5	465.4	460.2
62.5°	392.7	399.2	416.3	416.9	411.0
65°	348.1	356.0	367.8	366.5	360.6
67.5°	304.2	309.4	320.6	316.0	309.4
70°	259.6	264.2	273.4	266.8	260.9
72.5°	216.3	219.6	227.5	217.6	210.4
75°	173.7	175.0	180.9	168.5	158.0
77.5°	131.8	133.1	136.4	123.9	112.1
80°	93.7	93.7	95.1	81.9	74.1
82.5°	59.0	59.0	58.3	48.5	43.9
85°	30.8	30.2	29.5	23.6	21.6
87.5°	11.1	11.1	9.2	8.5	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)