

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: P485931

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3LO-30-120-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: P485931
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-24-2-INS-A125-LD4-3LO-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

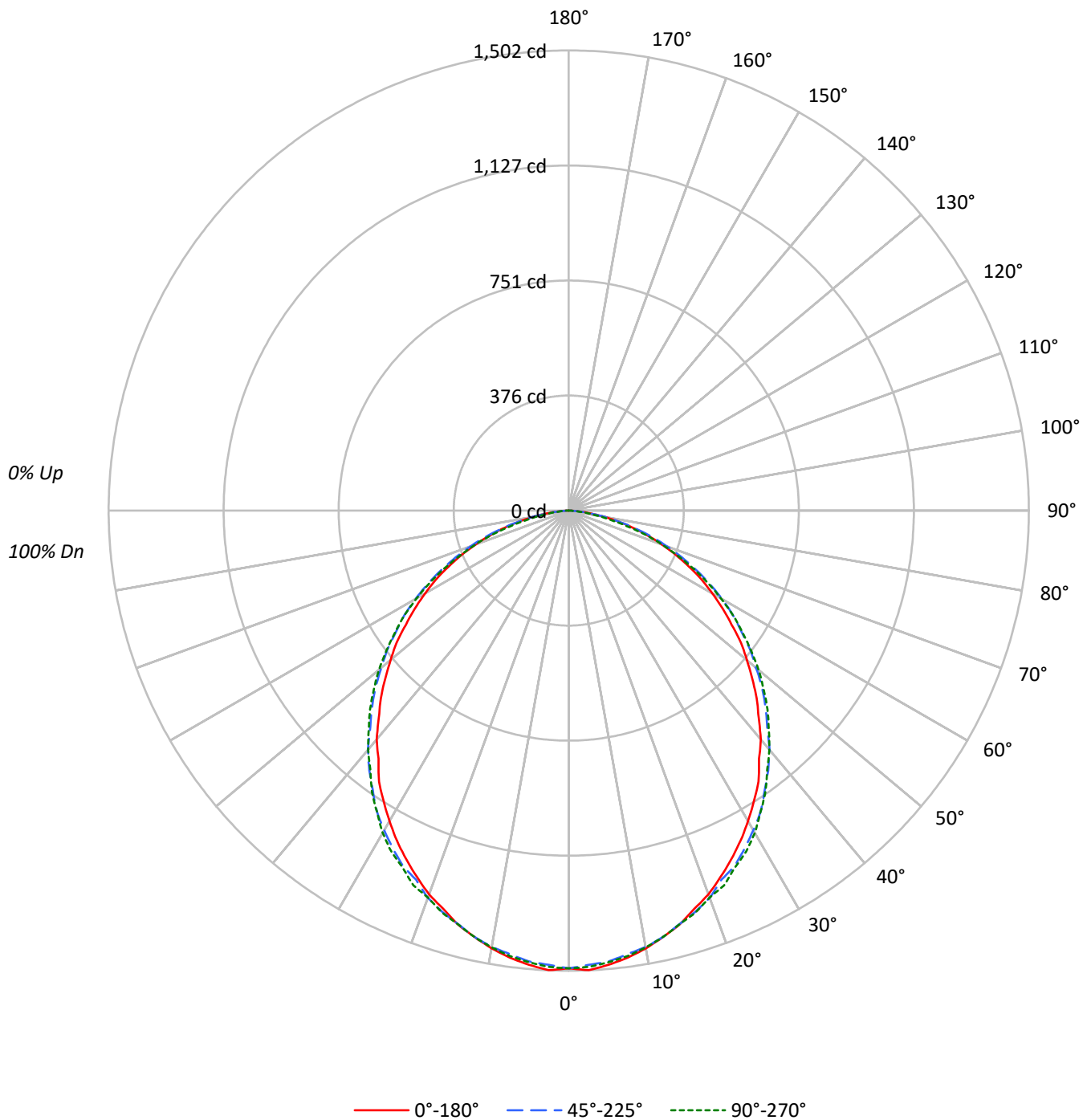
Lumens per Lamp: N/A
Luminaire Lumens: 3837.7 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	4021	4021	4021
5°	4021	3992	3998
10°	3964	3951	3955
15°	3896	3892	3894
20°	3818	3851	3848
25°	3728	3801	3813
30°	3637	3744	3774
35°	3548	3663	3679
40°	3426	3581	3579
45°	3301	3457	3491
50°	3177	3341	3386
55°	3043	3223	3242
60°	2915	3108	3087
65°	2762	2918	2861
70°	2545	2680	2558
75°	2251	2345	2047
80°	1810	1835	1430
85°	1186	1136	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	3.7
10°-20°	394.9	10.3
20°-30°	587.9	15.3
30°-40°	692.0	18.0
40°-50°	693.8	18.1
50°-60°	608.4	15.9
60°-70°	444.9	11.6
70°-80°	229.3	6.0
80°-90°	46.0	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°	1123.2	29.3
0°-40°	1815.3	47.3
0°-60°	3117.5	81.2
0°-90°	3837.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3837.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1488	1479	1478	1488	1480	141
15°	1398	1401	1397	1406	1398	394
25°	1256	1261	1280	1298	1284	578
35°	1080	1085	1115	1127	1120	673
45°	868	872	908	920	917	669
55°	649	663	687	697	691	582
65°	434	444	458	457	449	429
75°	216	218	226	210	197	229
85°	38	38	37	29	27	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1494.1	1494.1	1494.1	1494.1	1494.1
2.5°	1501.5	1494.1	1484.3	1492.5	1490.8
5°	1488.4	1478.6	1477.8	1487.6	1480.2
7.5°	1472.0	1470.4	1460.6	1471.2	1467.1
10°	1450.8	1449.2	1445.9	1453.3	1447.5
12.5°	1425.5	1423.8	1425.5	1429.6	1425.5
15°	1398.5	1401.0	1396.9	1405.9	1397.7
17.5°	1362.6	1365.0	1373.2	1376.5	1375.7
20°	1333.2	1334.8	1344.6	1357.7	1343.8
22.5°	1294.8	1298.9	1303.8	1327.5	1324.2
25°	1255.6	1261.3	1280.1	1298.0	1284.2
27.5°	1214.7	1220.4	1243.3	1256.4	1254.8
30°	1170.6	1176.3	1204.9	1222.9	1214.7
32.5°	1124.9	1134.7	1165.7	1181.2	1165.7
35°	1079.9	1084.8	1115.1	1127.3	1120.0
37.5°	1020.3	1039.1	1069.3	1077.5	1064.4
40°	975.4	976.2	1019.5	1019.5	1018.7
42.5°	917.4	930.4	959.0	974.6	966.4
45°	867.5	871.6	908.4	919.8	917.4
47.5°	812.8	829.1	856.1	869.2	862.6
50°	758.9	770.3	798.1	815.3	808.7
52.5°	709.1	718.1	746.6	756.4	749.9
55°	648.6	663.3	687.0	696.8	691.1
57.5°	596.3	607.0	636.4	639.6	636.4
60°	541.6	553.9	577.5	580.0	573.5
62.5°	489.3	497.5	518.7	519.5	512.2
65°	433.8	443.6	458.3	456.6	449.3
67.5°	379.0	385.6	399.5	393.7	385.6
70°	323.5	329.2	340.6	332.5	325.1
72.5°	269.6	273.7	283.5	271.2	262.2
75°	216.5	218.1	225.5	209.9	196.9
77.5°	164.2	165.8	169.9	154.4	139.7
80°	116.8	116.8	118.4	102.1	92.3
82.5°	73.5	73.5	72.7	60.5	54.7
85°	38.4	37.6	36.8	29.4	27.0
87.5°	13.9	13.9	11.4	10.6	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)