

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: P485909

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2STD-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: P485909
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-LD4-2STD-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

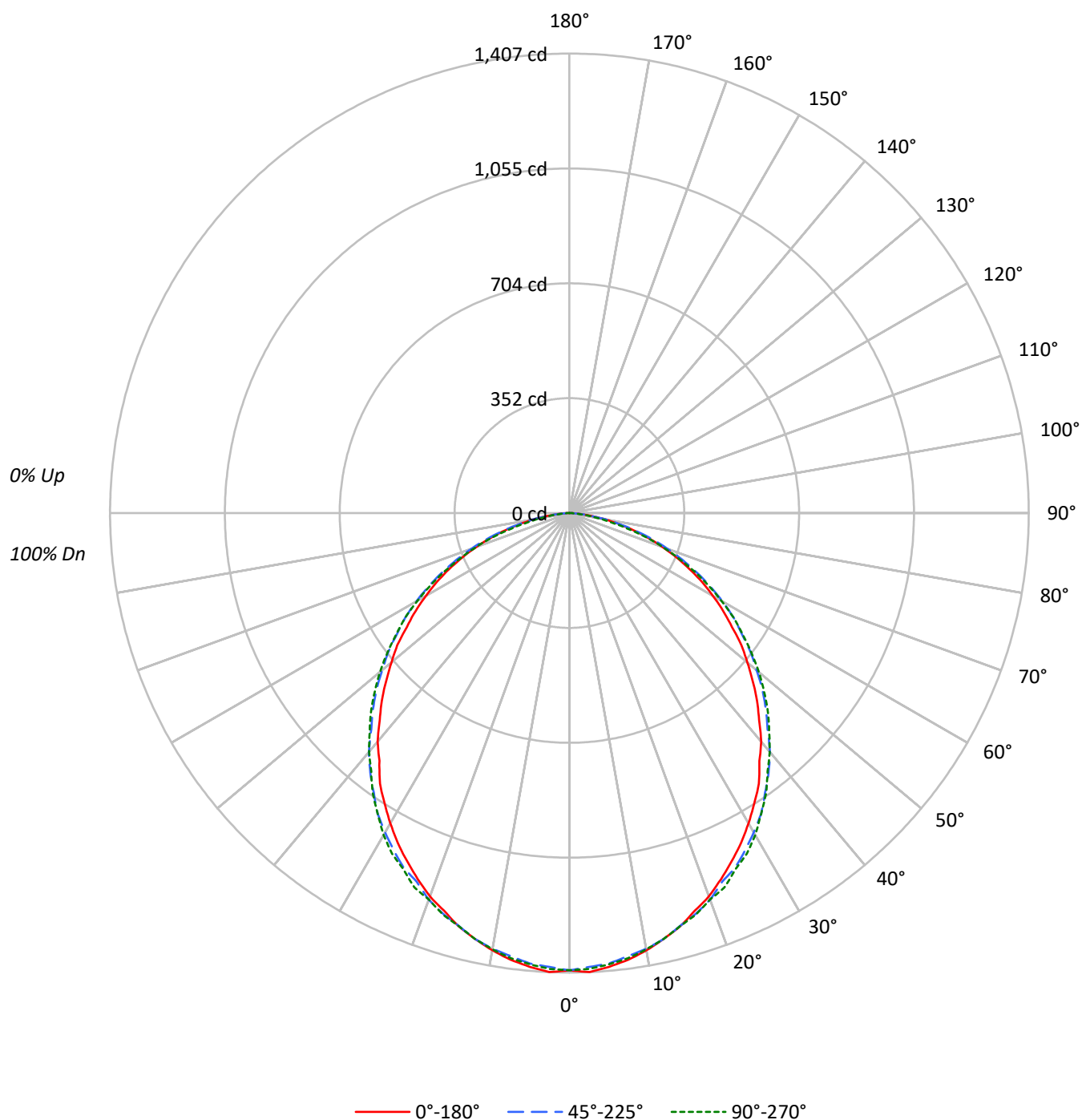
Lumens per Lamp: N/A
Luminaire Lumens: 3596.1 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	3767	3767	3767
5°	3767	3740	3747
10°	3715	3702	3706
15°	3651	3647	3649
20°	3577	3608	3606
25°	3493	3562	3573
30°	3408	3508	3537
35°	3324	3433	3448
40°	3211	3356	3353
45°	3094	3239	3271
50°	2977	3131	3172
55°	2852	3020	3038
60°	2731	2913	2892
65°	2588	2734	2681
70°	2385	2511	2397
75°	2109	2197	1918
80°	1697	1720	1340
85°	1112	1062	781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	3.7
10°-20°	370.0	10.3
20°-30°	550.9	15.3
30°-40°	648.4	18.0
40°-50°	650.2	18.1
50°-60°	570.1	15.9
60°-70°	416.9	11.6
70°-80°	214.8	6.0
80°-90°	43.1	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°	1052.5	29.3
0°-40°	1701.0	47.3
0°-60°	2921.3	81.2
0°-90°	3596.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3596.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1395	1386	1385	1394	1387	132
15°	1310	1313	1309	1317	1310	369
25°	1176	1182	1200	1216	1203	542
35°	1012	1016	1045	1056	1050	630
45°	813	817	851	862	860	626
55°	608	622	644	653	648	546
65°	406	416	429	428	421	402
75°	203	204	211	197	184	215
85°	36	35	34	28	25	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.0	1400.0	1400.0	1400.0	1400.0
2.5°	1406.9	1400.0	1390.9	1398.5	1397.0
5°	1394.7	1385.5	1384.7	1393.9	1387.0
7.5°	1379.4	1377.8	1368.7	1378.6	1374.8
10°	1359.5	1357.9	1354.9	1361.8	1356.4
12.5°	1335.7	1334.2	1335.7	1339.6	1335.7
15°	1310.5	1312.8	1309.0	1317.4	1309.7
17.5°	1276.8	1279.1	1286.8	1289.8	1289.0
20°	1249.2	1250.8	1260.0	1272.2	1259.2
22.5°	1213.3	1217.1	1221.7	1243.9	1240.8
25°	1176.5	1181.9	1199.5	1216.3	1203.3
27.5°	1138.3	1143.6	1165.0	1177.3	1175.8
30°	1096.9	1102.3	1129.1	1145.9	1138.3
32.5°	1054.1	1063.2	1092.3	1106.9	1092.3
35°	1011.9	1016.5	1044.9	1056.3	1049.5
37.5°	956.1	973.7	1002.0	1009.7	997.4
40°	914.0	914.7	955.3	955.3	954.5
42.5°	859.6	871.9	898.7	913.2	905.5
45°	812.9	816.8	851.2	861.9	859.6
47.5°	761.6	777.0	802.2	814.5	808.3
50°	711.1	721.8	747.9	763.9	757.8
52.5°	664.4	672.8	699.6	708.8	702.7
55°	607.8	621.6	643.8	652.9	647.6
57.5°	558.8	568.7	596.3	599.4	596.3
60°	507.5	519.0	541.2	543.5	537.4
62.5°	458.5	466.2	486.1	486.8	479.9
65°	406.5	415.6	429.4	427.9	421.0
67.5°	355.2	361.3	374.3	369.0	361.3
70°	303.1	308.5	319.2	311.5	304.7
72.5°	252.6	256.4	265.6	254.1	245.7
75°	202.8	204.4	211.3	196.7	184.5
77.5°	153.9	155.4	159.2	144.7	130.9
80°	109.5	109.5	111.0	95.7	86.5
82.5°	68.9	68.9	68.1	56.6	51.3
85°	36.0	35.2	34.4	27.6	25.3
87.5°	13.0	13.0	10.7	10.0	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)