

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: P485907

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2STD-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: P485907
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-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

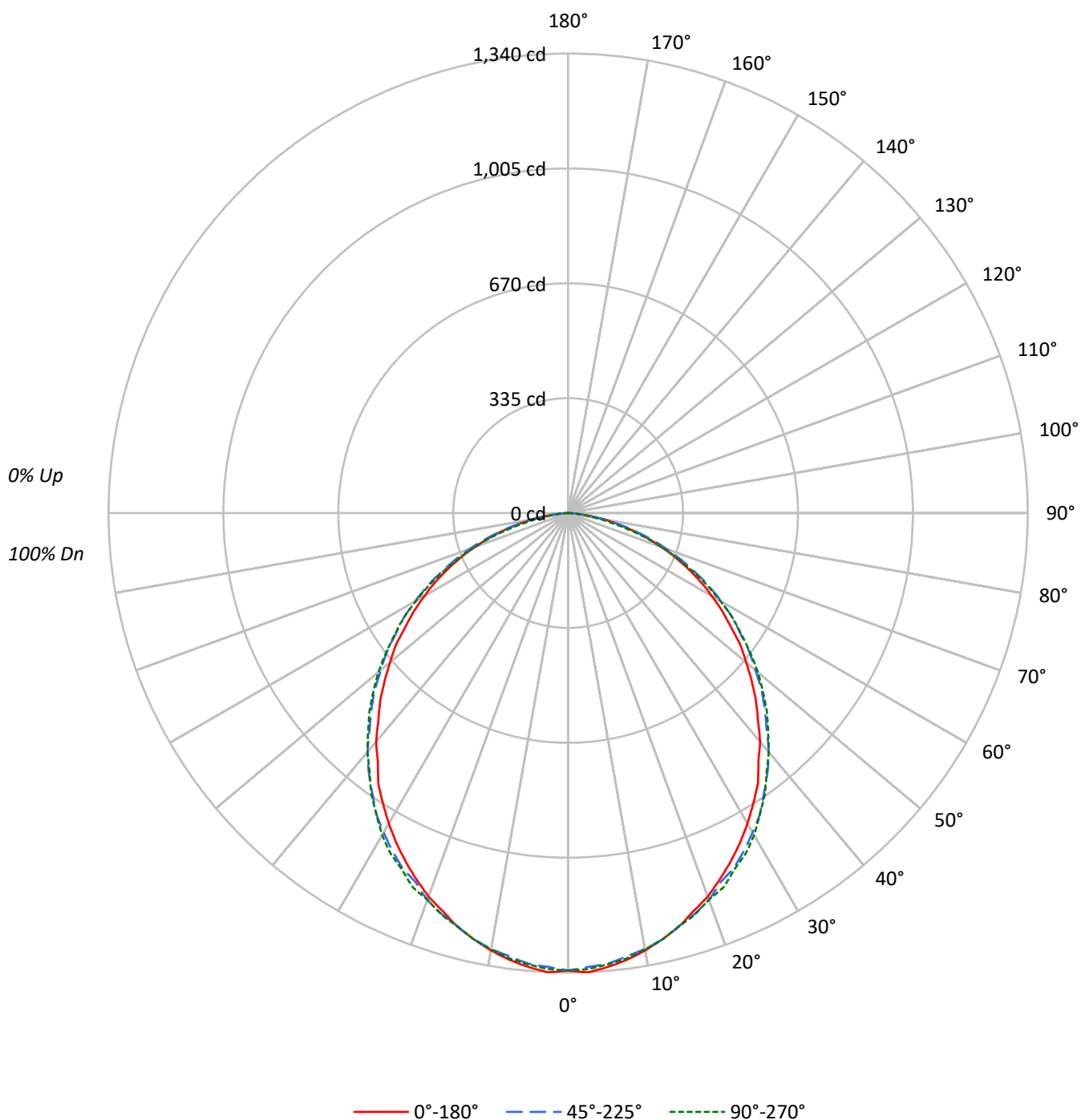
Lumens per Lamp: N/A
Luminaire Lumens: 3426.2 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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					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°	3589	3589	3589
5°	3589	3564	3570
10°	3539	3527	3531
15°	3478	3474	3476
20°	3408	3438	3436
25°	3328	3393	3404
30°	3247	3342	3370
35°	3167	3270	3285
40°	3059	3197	3195
45°	2947	3086	3117
50°	2836	2983	3023
55°	2717	2877	2895
60°	2602	2775	2756
65°	2466	2605	2554
70°	2272	2393	2284
75°	2010	2093	1828
80°	1616	1638	1277
85°	1059	1013	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	3.7
10°-20°	352.5	10.3
20°-30°	524.9	15.3
30°-40°	617.8	18.0
40°-50°	619.4	18.1
50°-60°	543.2	15.9
60°-70°	397.2	11.6
70°-80°	204.7	6.0
80°-90°	41.1	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°	1002.8	29.3
0°-40°	1620.6	47.3
0°-60°	2783.2	81.2
0°-90°	3426.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3426.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1329	1320	1319	1328	1322	126
15°	1249	1251	1247	1255	1248	351
25°	1121	1126	1143	1159	1146	516
35°	964	968	996	1006	1000	600
45°	774	778	811	821	819	597
55°	579	592	613	622	617	520
65°	387	396	409	408	401	383
75°	193	195	201	187	176	205
85°	34	34	33	26	24	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.9	1333.9	1333.9	1333.9	1333.9
2.5°	1340.5	1333.9	1325.1	1332.4	1331.0
5°	1328.8	1320.0	1319.3	1328.1	1321.5
7.5°	1314.2	1312.7	1304.0	1313.5	1309.8
10°	1295.2	1293.8	1290.9	1297.4	1292.3
12.5°	1272.6	1271.2	1272.6	1276.3	1272.6
15°	1248.6	1250.8	1247.1	1255.1	1247.8
17.5°	1216.5	1218.7	1226.0	1228.9	1228.1
20°	1190.2	1191.7	1200.4	1212.1	1199.7
22.5°	1155.9	1159.6	1164.0	1185.1	1182.2
25°	1120.9	1126.0	1142.8	1158.9	1146.5
27.5°	1084.5	1089.6	1110.0	1121.7	1120.2
30°	1045.1	1050.2	1075.7	1091.8	1084.5
32.5°	1004.3	1013.0	1040.7	1054.6	1040.7
35°	964.1	968.5	995.5	1006.4	999.9
37.5°	910.9	927.7	954.7	962.0	950.3
40°	870.8	871.5	910.2	910.2	909.4
42.5°	819.0	830.7	856.2	870.1	862.8
45°	774.5	778.2	811.0	821.2	819.0
47.5°	725.7	740.2	764.3	776.0	770.1
50°	677.5	687.7	712.5	727.8	722.0
52.5°	633.0	641.1	666.6	675.3	669.5
55°	579.1	592.2	613.3	622.1	617.0
57.5°	532.4	541.9	568.1	571.0	568.1
60°	483.5	494.5	515.6	517.8	512.0
62.5°	436.9	444.1	463.1	463.8	457.3
65°	387.3	396.0	409.1	407.7	401.1
67.5°	338.4	344.2	356.6	351.5	344.2
70°	288.8	293.9	304.1	296.8	290.3
72.5°	240.7	244.3	253.1	242.1	234.1
75°	193.3	194.7	201.3	187.4	175.8
77.5°	146.6	148.0	151.7	137.8	124.7
80°	104.3	104.3	105.7	91.2	82.4
82.5°	65.6	65.6	64.9	54.0	48.9
85°	34.3	33.5	32.8	26.3	24.1
87.5°	12.4	12.4	10.2	9.5	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)