

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: P485940

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3STD-27-120-EDD-90**

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: P485940
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-LD4-3STD-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

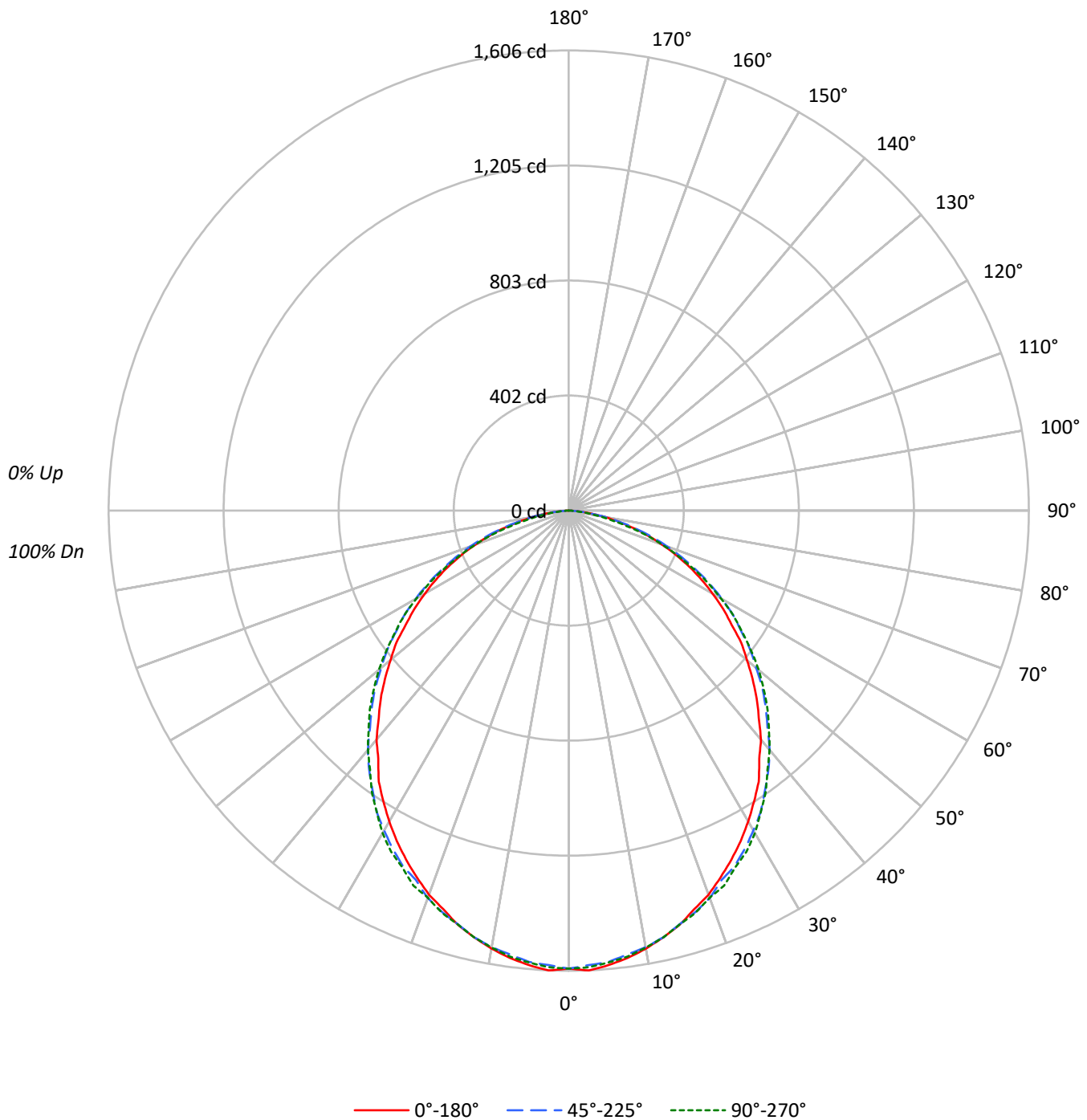
Lumens per Lamp: N/A
Luminaire Lumens: 4106.1 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4302	4302	4302
5°	4302	4271	4278
10°	4242	4227	4232
15°	4169	4164	4166
20°	4085	4120	4117
25°	3989	4067	4080
30°	3892	4006	4039
35°	3796	3919	3937
40°	3666	3832	3829
45°	3532	3699	3735
50°	3399	3575	3623
55°	3256	3449	3469
60°	3119	3326	3302
65°	2955	3122	3061
70°	2723	2868	2737
75°	2408	2508	2190
80°	1937	1963	1531
85°	1269	1213	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	3.7
10°-20°	422.5	10.3
20°-30°	629.0	15.3
30°-40°	740.4	18.0
40°-50°	742.4	18.1
50°-60°	651.0	15.9
60°-70°	476.0	11.6
70°-80°	245.3	6.0
80°-90°	49.2	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°	1201.8	29.3
0°-40°	1942.2	47.3
0°-60°	3335.6	81.2
0°-90°	4106.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4106.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1592	1582	1581	1592	1584	151
15°	1496	1499	1495	1504	1496	421
25°	1343	1350	1370	1389	1374	619
35°	1156	1161	1193	1206	1198	720
45°	928	933	972	984	982	715
55°	694	710	735	746	739	623
65°	464	475	490	489	481	459
75°	232	233	241	225	211	245
85°	41	40	39	32	29	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.6	1598.6	1598.6	1598.6	1598.6
2.5°	1606.5	1598.6	1588.1	1596.8	1595.1
5°	1592.5	1582.0	1581.1	1591.6	1583.7
7.5°	1575.0	1573.2	1562.8	1574.1	1569.8
10°	1552.3	1550.5	1547.0	1554.9	1548.8
12.5°	1525.2	1523.4	1525.2	1529.5	1525.2
15°	1496.3	1499.0	1494.6	1504.2	1495.5
17.5°	1457.9	1460.5	1469.2	1472.7	1471.9
20°	1426.4	1428.2	1438.6	1452.6	1437.8
22.5°	1385.3	1389.7	1394.9	1420.3	1416.8
25°	1343.4	1349.5	1369.6	1388.8	1374.0
27.5°	1299.7	1305.8	1330.3	1344.3	1342.5
30°	1252.5	1258.6	1289.2	1308.4	1299.7
32.5°	1203.5	1214.0	1247.2	1263.8	1247.2
35°	1155.5	1160.7	1193.0	1206.2	1198.3
37.5°	1091.7	1111.8	1144.1	1152.8	1138.9
40°	1043.6	1044.5	1090.8	1090.8	1089.9
42.5°	981.5	995.5	1026.1	1042.7	1034.0
45°	928.2	932.6	971.9	984.2	981.5
47.5°	869.7	887.1	916.0	930.0	923.0
50°	812.0	824.2	853.9	872.3	865.3
52.5°	758.7	768.3	798.9	809.3	802.4
55°	694.0	709.7	735.1	745.5	739.4
57.5°	638.0	649.4	680.9	684.4	680.9
60°	579.5	592.6	617.9	620.6	613.6
62.5°	523.5	532.3	555.0	555.9	548.0
65°	464.1	474.6	490.3	488.6	480.7
67.5°	405.5	412.5	427.4	421.3	412.5
70°	346.1	352.2	364.5	355.7	347.9
72.5°	288.4	292.8	303.3	290.2	280.6
75°	231.6	233.4	241.2	224.6	210.6
77.5°	175.7	177.4	181.8	165.2	149.5
80°	125.0	125.0	126.7	109.3	98.8
82.5°	78.7	78.7	77.8	64.7	58.6
85°	41.1	40.2	39.3	31.5	28.8
87.5°	14.9	14.9	12.2	11.4	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)