

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: P487290

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5HI-40-120-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: P487290
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-LD4-5HI-40-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

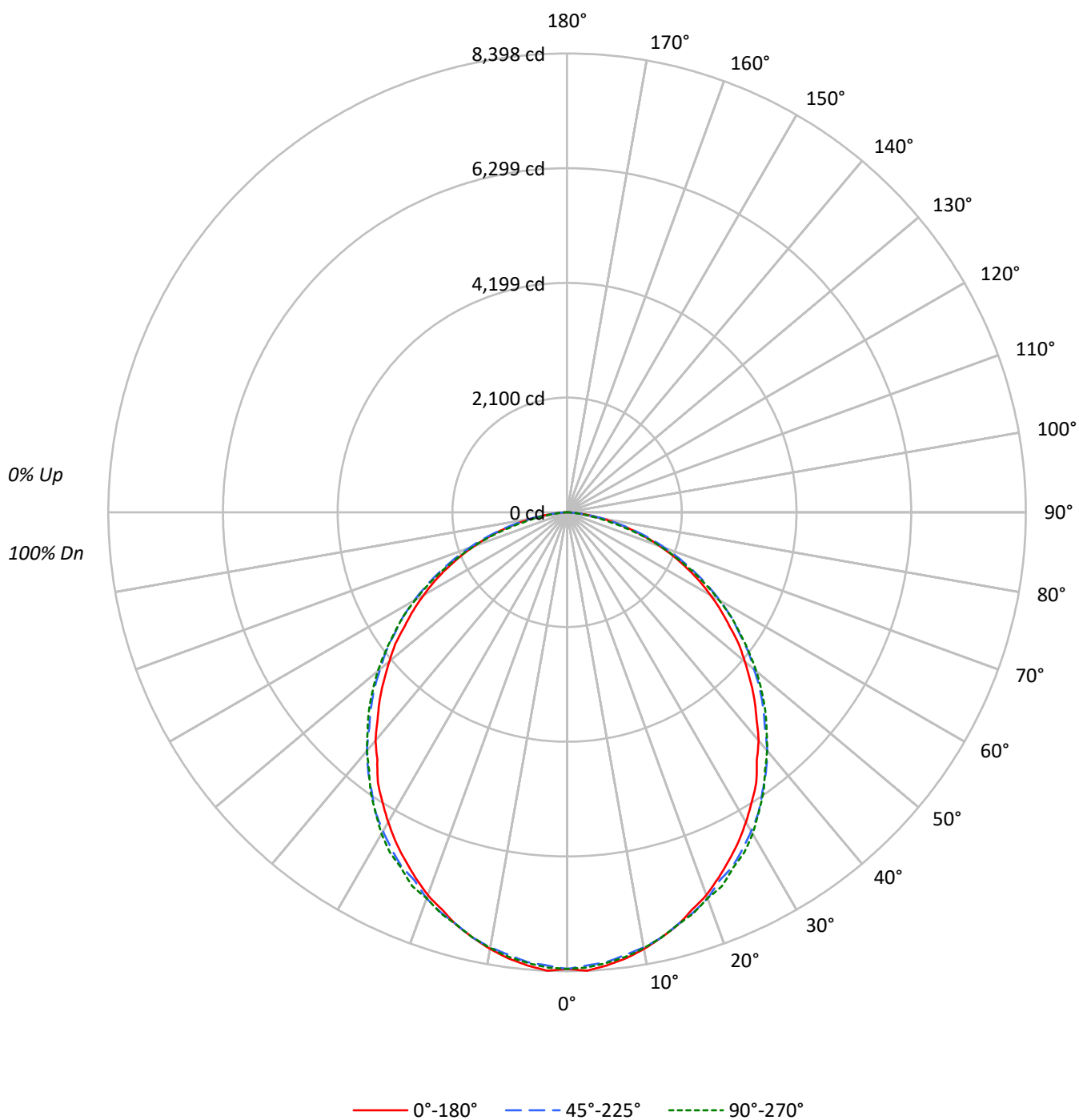
Lumens per Lamp: N/A
Luminaire Lumens: 21464.4 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11244	11244	11244
5°	11243	11163	11182
10°	11086	11049	11061
15°	10896	10883	10889
20°	10677	10768	10762
25°	10425	10629	10663
30°	10172	10470	10555
35°	9921	10244	10289
40°	9582	10015	10007
45°	9233	9667	9763
50°	8885	9344	9468
55°	8510	9014	9067
60°	8152	8692	8631
65°	7724	8160	8000
70°	7118	7495	7153
75°	6294	6555	5724
80°	5063	5133	4000
85°	3314	3174	2328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.5	3.7
10°-20°	2208.6	10.3
20°-30°	3288.2	15.3
30°-40°	3870.4	18.0
40°-50°	3880.6	18.1
50°-60°	3403.0	15.9
60°-70°	2488.3	11.6
70°-80°	1282.4	6.0
80°-90°	257.3	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°	6282.3	29.3
0°-40°	10152.8	47.3
0°-60°	17436.3	81.2
0°-90°	21464.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21464.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8357	8357	8357	8357	8357	
5°	8325	8270	8265	8320	8279	788
15°	7822	7836	7813	7863	7817	2201
25°	7022	7054	7160	7260	7182	3235
35°	6040	6068	6237	6305	6264	3762
45°	4852	4875	5081	5145	5131	3739
55°	3628	3710	3842	3897	3865	3256
65°	2426	2481	2563	2554	2513	2400
75°	1211	1220	1261	1174	1101	1283
85°	215	210	206	164	151	280
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8356.6	8356.6	8356.6	8356.6	8356.6
2.5°	8397.7	8356.6	8301.7	8347.4	8338.3
5°	8324.6	8269.8	8265.2	8320.0	8278.9
7.5°	8233.2	8224.1	8169.2	8228.6	8205.8
10°	8114.4	8105.3	8087.0	8128.1	8096.1
12.5°	7972.8	7963.6	7972.8	7995.6	7972.8
15°	7822.0	7835.7	7812.9	7863.1	7817.4
17.5°	7621.0	7634.7	7680.4	7698.6	7694.1
20°	7456.5	7465.6	7520.5	7593.6	7515.9
22.5°	7241.8	7264.6	7292.0	7424.5	7406.2
25°	7022.4	7054.4	7159.5	7260.0	7182.4
27.5°	6794.0	6826.0	6953.9	7027.0	7017.9
30°	6547.3	6579.3	6739.2	6839.7	6794.0
32.5°	6291.4	6346.2	6519.9	6606.7	6519.9
35°	6040.1	6067.5	6236.6	6305.1	6264.0
37.5°	5706.6	5811.7	5980.7	6026.4	5953.3
40°	5455.3	5459.9	5702.0	5702.0	5697.5
42.5°	5130.9	5204.0	5363.9	5450.7	5405.0
45°	4852.2	4875.0	5080.6	5144.6	5130.9
47.5°	4546.1	4637.5	4788.2	4861.3	4824.8
50°	4244.5	4308.5	4463.8	4559.8	4523.2
52.5°	3965.8	4016.1	4176.0	4230.8	4194.3
55°	3627.7	3710.0	3842.5	3897.3	3865.3
57.5°	3335.3	3394.7	3559.2	3577.5	3559.2
60°	3029.2	3097.7	3230.2	3243.9	3207.4
62.5°	2736.8	2782.5	2901.3	2905.8	2864.7
65°	2426.1	2480.9	2563.2	2554.0	2512.9
67.5°	2120.0	2156.5	2234.2	2202.2	2156.5
70°	1809.3	1841.3	1905.2	1859.6	1818.4
72.5°	1507.7	1530.6	1585.4	1516.9	1466.6
75°	1210.8	1219.9	1261.0	1174.2	1101.1
77.5°	918.4	927.5	950.3	863.5	781.3
80°	653.4	653.4	662.5	571.1	516.3
82.5°	411.2	411.2	406.6	338.1	306.1
85°	214.7	210.2	205.6	164.5	150.8
87.5°	77.7	77.7	64.0	59.4	64.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)