

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: P485845

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1HI-27-120-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: P485845
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-LD4-1HI-27-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

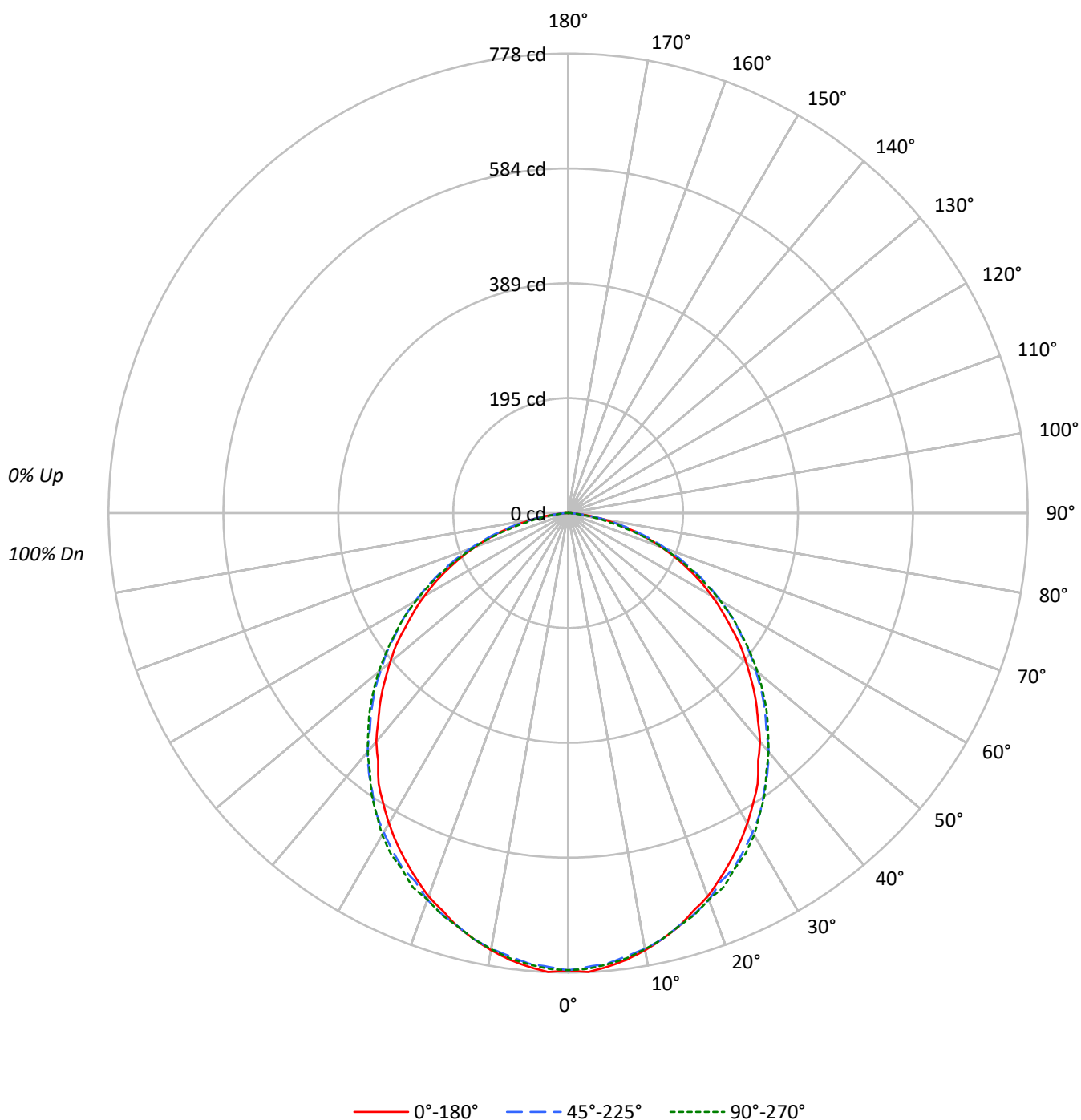
Lumens per Lamp: N/A
Luminaire Lumens: 1988.2 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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°	2083	2083	2083
5°	2083	2068	2072
10°	2054	2047	2049
15°	2018	2016	2017
20°	1978	1995	1994
25°	1931	1969	1975
30°	1885	1940	1955
35°	1838	1898	1906
40°	1775	1855	1854
45°	1710	1791	1809
50°	1646	1731	1754
55°	1576	1670	1680
60°	1510	1610	1599
65°	1431	1512	1482
70°	1319	1389	1325
75°	1167	1214	1061
80°	938	951	741
85°	614	587	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	3.7
10°-20°	204.6	10.3
20°-30°	304.6	15.3
30°-40°	358.5	18.0
40°-50°	359.5	18.1
50°-60°	315.2	15.9
60°-70°	230.5	11.6
70°-80°	118.8	6.0
80°-90°	23.8	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°	581.9	29.3
0°-40°	940.4	47.3
0°-60°	1615.1	81.2
0°-90°	1988.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1988.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	771	766	766	771	767	73
15°	724	726	724	728	724	204
25°	650	653	663	672	665	300
35°	560	562	578	584	580	348
45°	449	452	471	476	475	346
55°	336	344	356	361	358	302
65°	225	230	237	237	233	222
75°	112	113	117	109	102	119
85°	20	20	19	15	14	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.1	774.1	774.1	774.1	774.1
2.5°	777.9	774.1	769.0	773.2	772.4
5°	771.1	766.0	765.6	770.7	766.9
7.5°	762.6	761.8	756.7	762.2	760.1
10°	751.6	750.8	749.1	752.9	749.9
12.5°	738.5	737.7	738.5	740.6	738.5
15°	724.5	725.8	723.7	728.3	724.1
17.5°	705.9	707.2	711.4	713.1	712.7
20°	690.7	691.5	696.6	703.4	696.2
22.5°	670.8	672.9	675.4	687.7	686.0
25°	650.5	653.4	663.2	672.5	665.3
27.5°	629.3	632.3	644.1	650.9	650.1
30°	606.5	609.4	624.2	633.5	629.3
32.5°	582.8	587.8	603.9	612.0	603.9
35°	559.5	562.0	577.7	584.0	580.2
37.5°	528.6	538.3	554.0	558.2	551.4
40°	505.3	505.7	528.2	528.2	527.7
42.5°	475.3	482.0	496.8	504.9	500.7
45°	449.4	451.6	470.6	476.5	475.3
47.5°	421.1	429.6	443.5	450.3	446.9
50°	393.2	399.1	413.5	422.4	419.0
52.5°	367.3	372.0	386.8	391.9	388.5
55°	336.0	343.6	355.9	361.0	358.0
57.5°	308.9	314.4	329.7	331.4	329.7
60°	280.6	286.9	299.2	300.5	297.1
62.5°	253.5	257.7	268.7	269.2	265.4
65°	224.7	229.8	237.4	236.6	232.8
67.5°	196.4	199.8	206.9	204.0	199.8
70°	167.6	170.6	176.5	172.2	168.4
72.5°	139.7	141.8	146.9	140.5	135.9
75°	112.2	113.0	116.8	108.8	102.0
77.5°	85.1	85.9	88.0	80.0	72.4
80°	60.5	60.5	61.4	52.9	47.8
82.5°	38.1	38.1	37.7	31.3	28.4
85°	19.9	19.5	19.0	15.2	14.0
87.5°	7.2	7.2	5.9	5.5	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)