

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: P485922

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3HI-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: P485922
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-LD4-3HI-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

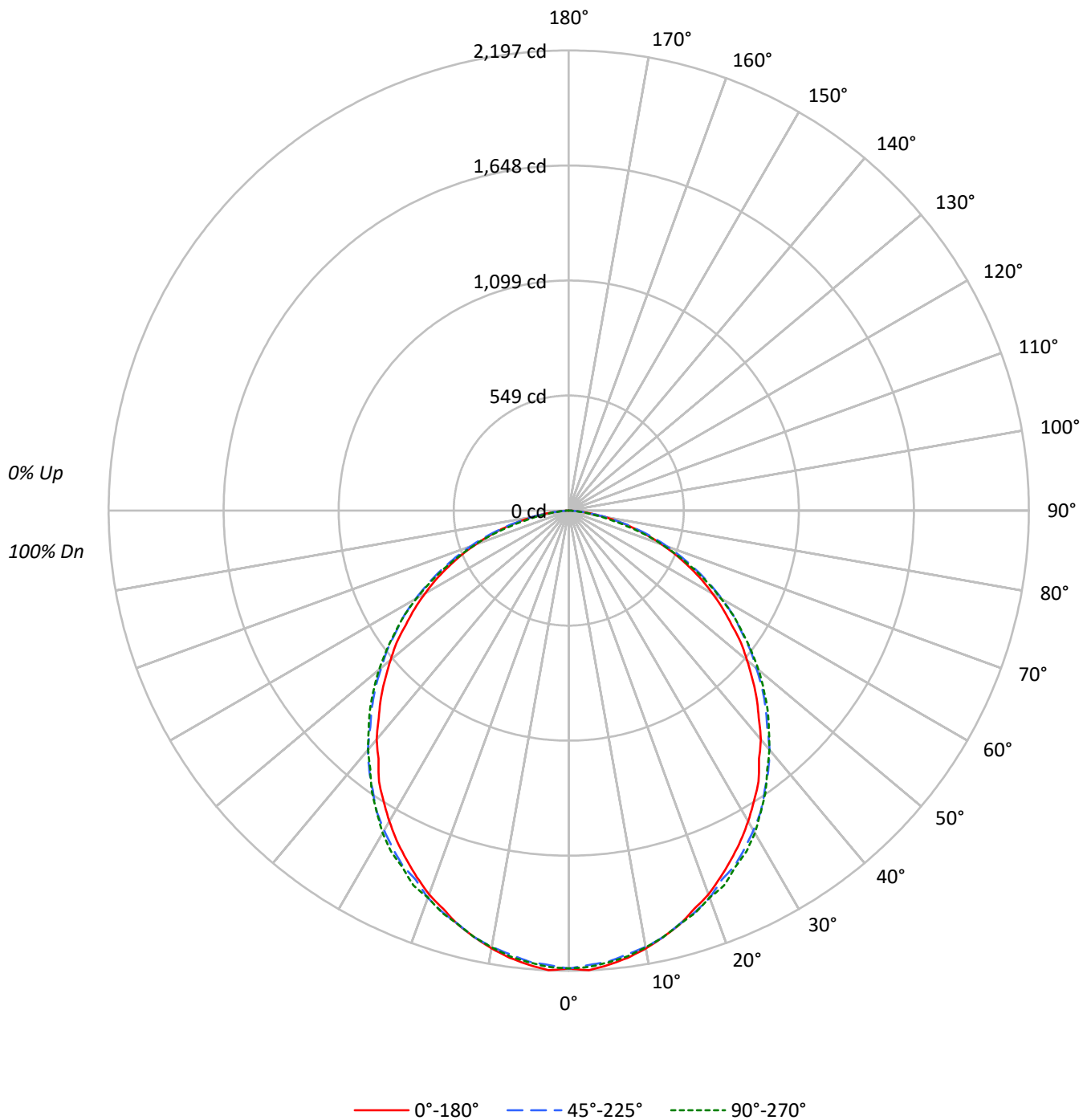
Lumens per Lamp: N/A
Luminaire Lumens: 5614.8 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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°	5882	5882	5882
5°	5882	5840	5850
10°	5800	5781	5787
15°	5700	5694	5697
20°	5586	5634	5630
25°	5454	5561	5578
30°	5322	5478	5522
35°	5190	5359	5383
40°	5013	5240	5236
45°	4830	5058	5108
50°	4648	4888	4953
55°	4452	4716	4744
60°	4265	4548	4515
65°	4041	4269	4185
70°	3724	3921	3743
75°	3293	3430	2994
80°	2648	2686	2094
85°	1735	1661	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	3.7
10°-20°	577.7	10.3
20°-30°	860.2	15.3
30°-40°	1012.5	18.0
40°-50°	1015.1	18.1
50°-60°	890.2	15.9
60°-70°	650.9	11.6
70°-80°	335.5	6.0
80°-90°	67.3	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°	1643.4	29.3
0°-40°	2655.8	47.3
0°-60°	4561.1	81.2
0°-90°	5614.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5614.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2186	2186	2186	2186	2186	
5°	2178	2163	2162	2176	2166	206
15°	2046	2050	2044	2057	2045	576
25°	1837	1845	1873	1899	1879	846
35°	1580	1587	1631	1649	1639	984
45°	1269	1275	1329	1346	1342	978
55°	949	970	1005	1020	1011	852
65°	635	649	670	668	657	628
75°	317	319	330	307	288	336
85°	56	55	54	43	39	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2186.0	2186.0	2186.0	2186.0	2186.0
2.5°	2196.7	2186.0	2171.6	2183.6	2181.2
5°	2177.6	2163.3	2162.1	2176.4	2165.6
7.5°	2153.7	2151.3	2137.0	2152.5	2146.5
10°	2122.6	2120.2	2115.5	2126.2	2117.8
12.5°	2085.6	2083.2	2085.6	2091.5	2085.6
15°	2046.1	2049.7	2043.7	2056.9	2044.9
17.5°	1993.5	1997.1	2009.1	2013.9	2012.7
20°	1950.5	1952.9	1967.3	1986.4	1966.1
22.5°	1894.3	1900.3	1907.5	1942.2	1937.4
25°	1837.0	1845.3	1872.8	1899.1	1878.8
27.5°	1777.2	1785.6	1819.1	1838.2	1835.8
30°	1712.7	1721.0	1762.9	1789.2	1777.2
32.5°	1645.8	1660.1	1705.5	1728.2	1705.5
35°	1580.0	1587.2	1631.4	1649.3	1638.6
37.5°	1492.8	1520.3	1564.5	1576.4	1557.3
40°	1427.0	1428.2	1491.6	1491.6	1490.4
42.5°	1342.2	1361.3	1403.1	1425.8	1413.9
45°	1269.3	1275.2	1329.0	1345.8	1342.2
47.5°	1189.2	1213.1	1252.5	1271.7	1262.1
50°	1110.3	1127.0	1167.7	1192.8	1183.2
52.5°	1037.4	1050.6	1092.4	1106.7	1097.2
55°	949.0	970.5	1005.1	1019.5	1011.1
57.5°	872.5	888.0	931.0	935.8	931.0
60°	792.4	810.3	845.0	848.6	839.0
62.5°	715.9	727.9	758.9	760.1	749.4
65°	634.6	649.0	670.5	668.1	657.3
67.5°	554.6	564.1	584.4	576.1	564.1
70°	473.3	481.7	498.4	486.4	475.7
72.5°	394.4	400.4	414.7	396.8	383.6
75°	316.7	319.1	329.9	307.2	288.0
77.5°	240.2	242.6	248.6	225.9	204.4
80°	170.9	170.9	173.3	149.4	135.1
82.5°	107.6	107.6	106.4	88.4	80.1
85°	56.2	55.0	53.8	43.0	39.4
87.5°	20.3	20.3	16.7	15.5	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)