

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: P486004

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5LO-35-120-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: P486004
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-LD4-5LO-35-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

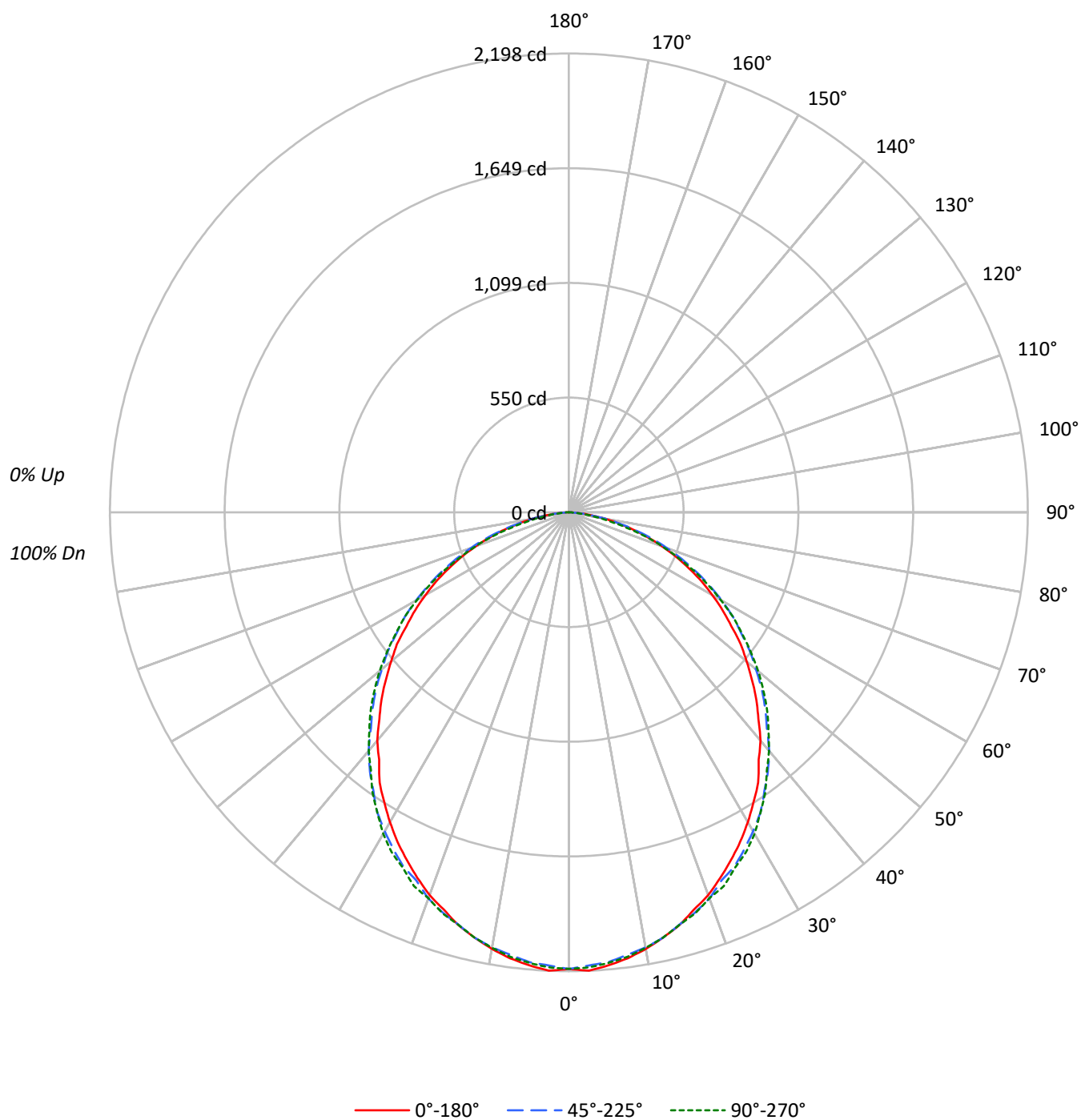
Lumens per Lamp: N/A
Luminaire Lumens: 5617.3 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	5885	5885	5885
5°	5885	5843	5853
10°	5803	5783	5790
15°	5703	5696	5699
20°	5588	5636	5633
25°	5457	5563	5581
30°	5324	5480	5525
35°	5193	5362	5385
40°	5015	5242	5238
45°	4832	5060	5110
50°	4650	4891	4955
55°	4454	4718	4746
60°	4267	4550	4518
65°	4043	4271	4187
70°	3725	3923	3744
75°	3295	3431	2996
80°	2650	2687	2094
85°	1735	1661	1220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	3.7
10°-20°	578.0	10.3
20°-30°	860.5	15.3
30°-40°	1012.9	18.0
40°-50°	1015.6	18.1
50°-60°	890.6	15.9
60°-70°	651.2	11.6
70°-80°	335.6	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°	1644.1	29.3
0°-40°	2657.0	47.3
0°-60°	4563.2	81.2
0°-90°	5617.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5617.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2187	2187	2187	2187	2187	
5°	2179	2164	2163	2177	2167	206
15°	2047	2051	2045	2058	2046	576
25°	1838	1846	1874	1900	1880	847
35°	1581	1588	1632	1650	1639	984
45°	1270	1276	1330	1346	1343	979
55°	949	971	1006	1020	1012	852
65°	635	649	671	668	658	628
75°	317	319	330	307	288	336
85°	56	55	54	43	40	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2186.9	2186.9	2186.9	2186.9	2186.9
2.5°	2197.7	2186.9	2172.6	2184.5	2182.2
5°	2178.6	2164.2	2163.0	2177.4	2166.6
7.5°	2154.7	2152.3	2137.9	2153.5	2147.5
10°	2123.6	2121.2	2116.4	2127.2	2118.8
12.5°	2086.5	2084.1	2086.5	2092.5	2086.5
15°	2047.0	2050.6	2044.7	2057.8	2045.8
17.5°	1994.4	1998.0	2010.0	2014.8	2013.6
20°	1951.4	1953.8	1968.1	1987.3	1966.9
22.5°	1895.2	1901.2	1908.3	1943.0	1938.2
25°	1837.8	1846.2	1873.7	1900.0	1879.6
27.5°	1778.0	1786.4	1819.9	1839.0	1836.6
30°	1713.4	1721.8	1763.7	1790.0	1778.0
32.5°	1646.5	1660.8	1706.3	1729.0	1706.3
35°	1580.7	1587.9	1632.1	1650.1	1639.3
37.5°	1493.4	1520.9	1565.2	1577.1	1558.0
40°	1427.7	1428.9	1492.2	1492.2	1491.0
42.5°	1342.8	1361.9	1403.8	1426.5	1414.5
45°	1269.8	1275.8	1329.6	1346.4	1342.8
47.5°	1189.7	1213.6	1253.1	1272.2	1262.7
50°	1110.8	1127.5	1168.2	1193.3	1183.7
52.5°	1037.9	1051.0	1092.9	1107.2	1097.7
55°	949.4	970.9	1005.6	1019.9	1011.6
57.5°	872.9	888.4	931.5	936.2	931.5
60°	792.8	810.7	845.4	848.9	839.4
62.5°	716.2	728.2	759.3	760.5	749.7
65°	634.9	649.3	670.8	668.4	657.6
67.5°	554.8	564.4	584.7	576.3	564.4
70°	473.5	481.9	498.6	486.7	475.9
72.5°	394.6	400.6	414.9	397.0	383.8
75°	316.9	319.3	330.0	307.3	288.2
77.5°	240.3	242.7	248.7	226.0	204.5
80°	171.0	171.0	173.4	149.5	135.1
82.5°	107.6	107.6	106.4	88.5	80.1
85°	56.2	55.0	53.8	43.0	39.5
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)