

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: P485928

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3LO-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: P485928
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-LD4-3LO-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

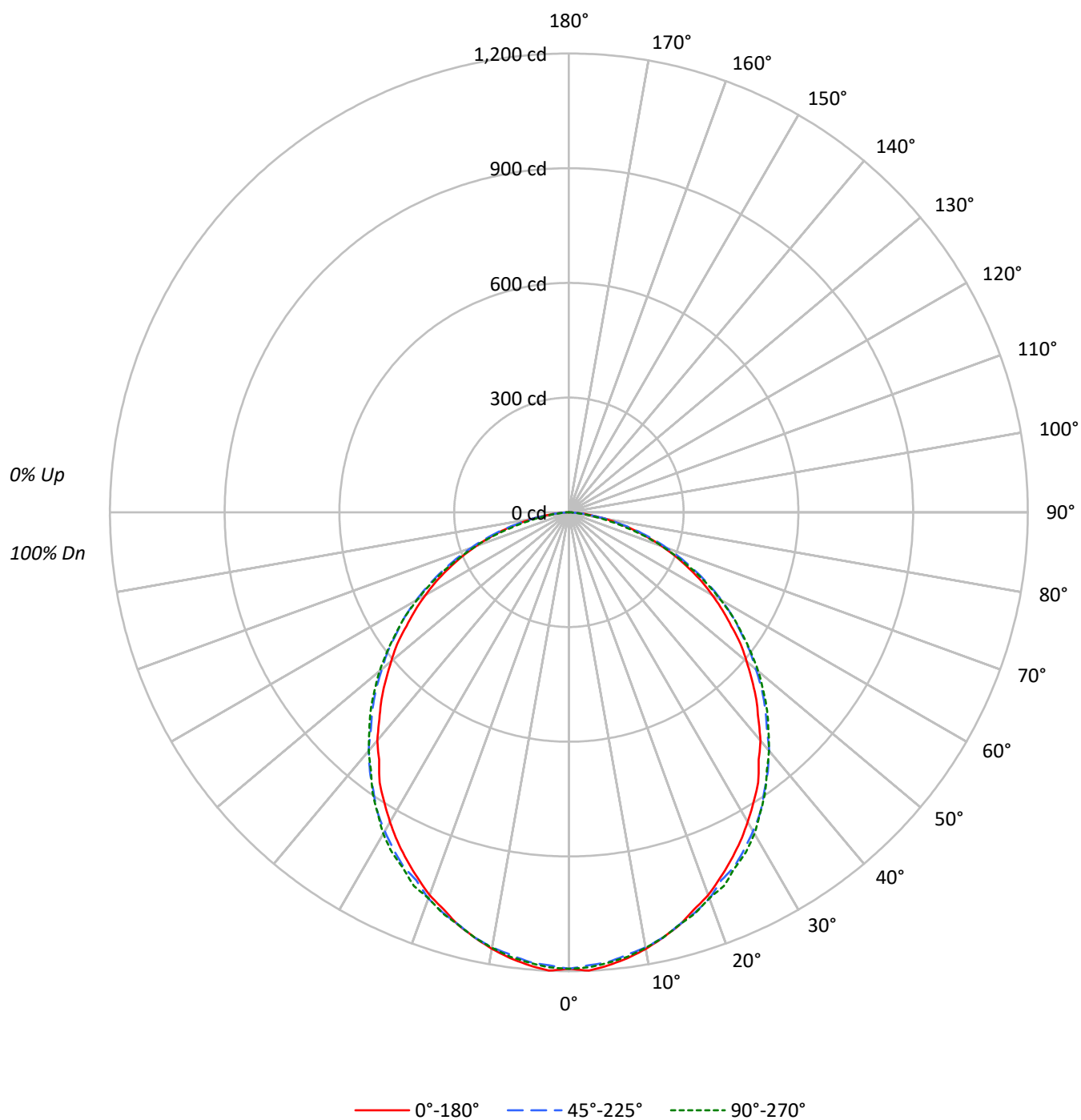
Lumens per Lamp: N/A
Luminaire Lumens: 3066.2 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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	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°	3212	3212	3212
5°	3212	3189	3195
10°	3167	3157	3160
15°	3113	3109	3111
20°	3050	3076	3074
25°	2979	3037	3046
30°	2906	2991	3016
35°	2834	2927	2939
40°	2738	2861	2859
45°	2638	2762	2790
50°	2538	2670	2705
55°	2431	2575	2591
60°	2329	2483	2466
65°	2207	2332	2286
70°	2034	2142	2044
75°	1799	1873	1635
80°	1446	1466	1144
85°	948	908	664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	3.7
10°-20°	315.5	10.3
20°-30°	469.7	15.3
30°-40°	552.9	18.0
40°-50°	554.3	18.1
50°-60°	486.1	15.9
60°-70°	355.5	11.6
70°-80°	183.2	6.0
80°-90°	36.7	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°	897.4	29.3
0°-40°	1450.3	47.3
0°-60°	2490.8	81.2
0°-90°	3066.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3066.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1189	1181	1181	1188	1183	113
15°	1117	1119	1116	1123	1117	314
25°	1003	1008	1023	1037	1026	462
35°	863	867	891	901	895	537
45°	693	696	726	735	733	534
55°	518	530	549	557	552	465
65°	347	354	366	365	359	343
75°	173	174	180	168	157	183
85°	31	30	29	24	22	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1193.7	1193.7	1193.7	1193.7	1193.7
2.5°	1199.6	1193.7	1185.9	1192.4	1191.1
5°	1189.2	1181.3	1180.7	1188.5	1182.6
7.5°	1176.1	1174.8	1167.0	1175.5	1172.2
10°	1159.1	1157.8	1155.2	1161.1	1156.5
12.5°	1138.9	1137.6	1138.9	1142.2	1138.9
15°	1117.4	1119.3	1116.1	1123.3	1116.7
17.5°	1088.7	1090.6	1097.1	1099.8	1099.1
20°	1065.2	1066.5	1074.3	1084.7	1073.6
22.5°	1034.5	1037.8	1041.7	1060.6	1058.0
25°	1003.2	1007.7	1022.7	1037.1	1026.0
27.5°	970.5	975.1	993.4	1003.8	1002.5
30°	935.3	939.9	962.7	977.1	970.5
32.5°	898.7	906.6	931.4	943.8	931.4
35°	862.8	866.8	890.9	900.7	894.8
37.5°	815.2	830.2	854.4	860.9	850.4
40°	779.3	779.9	814.5	814.5	813.9
42.5°	733.0	743.4	766.2	778.6	772.1
45°	693.1	696.4	725.8	734.9	733.0
47.5°	649.4	662.5	684.0	694.4	689.2
50°	606.3	615.5	637.7	651.4	646.1
52.5°	566.5	573.7	596.5	604.4	599.2
55°	518.2	530.0	548.9	556.7	552.2
57.5°	476.5	484.9	508.4	511.0	508.4
60°	432.7	442.5	461.4	463.4	458.2
62.5°	391.0	397.5	414.4	415.1	409.2
65°	346.6	354.4	366.2	364.8	359.0
67.5°	302.8	308.1	319.2	314.6	308.1
70°	258.5	263.0	272.2	265.6	259.8
72.5°	215.4	218.6	226.5	216.7	209.5
75°	173.0	174.3	180.1	167.7	157.3
77.5°	131.2	132.5	135.8	123.4	111.6
80°	93.3	93.3	94.6	81.6	73.8
82.5°	58.7	58.7	58.1	48.3	43.7
85°	30.7	30.0	29.4	23.5	21.5
87.5°	11.1	11.1	9.1	8.5	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)