

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: P26472

Luminaire Tested: **ORM-G-24-2-LD4-6LO-40-UNV-ASYMRFI-ED**

Test Date: 07/24/15

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: P26472
Test Lab: INNOVATION CENTER-P2
Test Date: 07/24/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORM-G-24-2-LD4-6LO-40-UNV-ASYSYMRFI-ED
Description: FAILSAFE 2X2 LED RECESSED OPERATING ROOM FIXTURE
Light Source: (252) ULM2.0 4000K LEDS
2UT217042A8404A
Ballast/Driver: (2) OSRAM ELECTRONIC DRIVER
(2) OSRAM OT50W

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	DRIVER
	AS-5443-4	Good	UPPER MODULE
	AS-5443-5	Good	LENS
	AS-5443-6	Good	DRIVER 2
	AS-5443-7	Good	TRIM RING

Summary

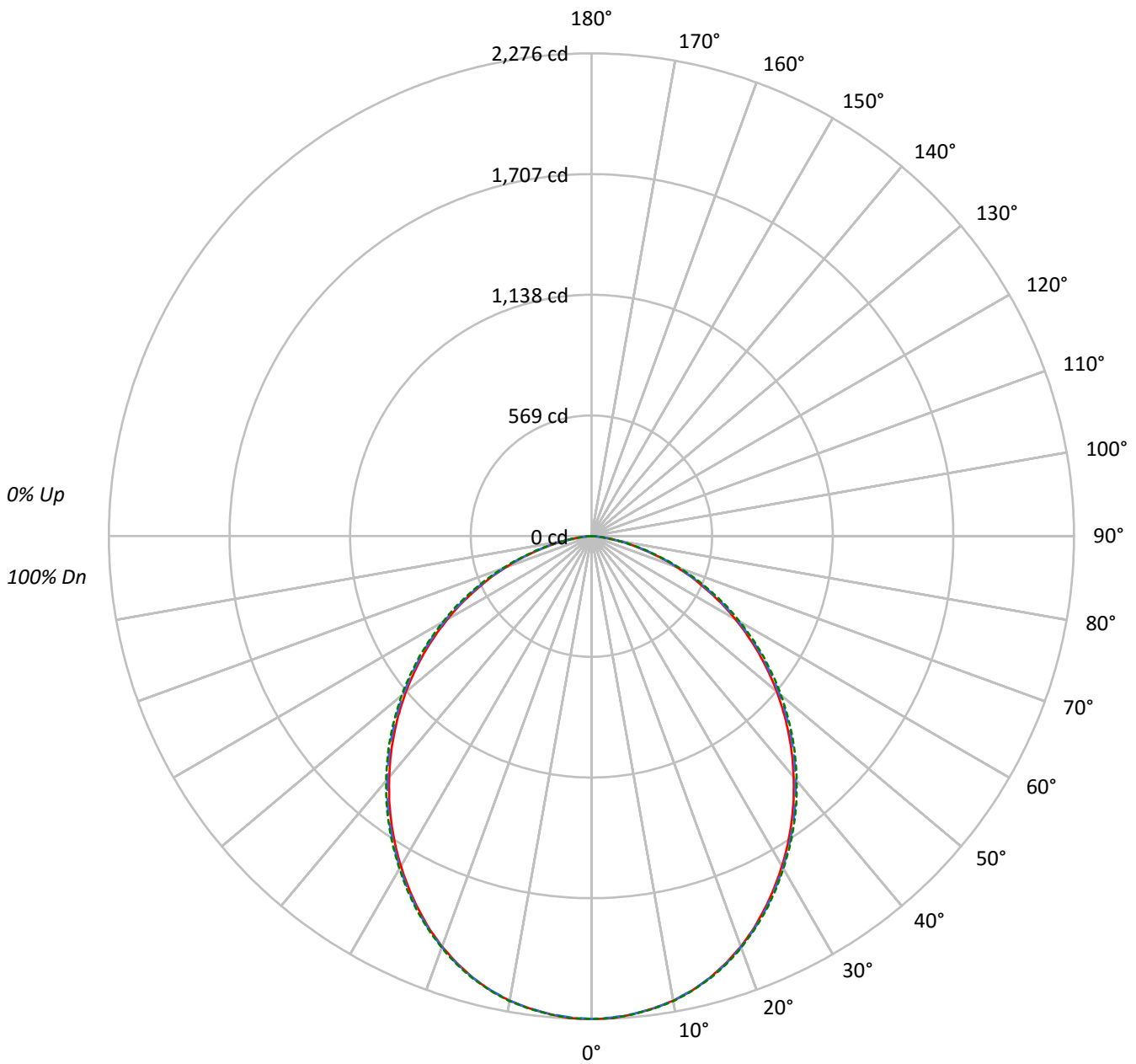
Lumens per Lamp: N/A
Luminaire Lumens: 5606.9 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 71.9
Input Voltage (V): 120.06
Input Current (A_{in}): 0.60115
Voltage Rise (V): NR
Power Factor: 0.9986
Total Harmonic Distortion (THDi): 7.79%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 4 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6125	6125	6125
5°	6110	6108	6113
10°	6077	6074	6083
15°	6006	6006	6018
20°	5896	5905	5913
25°	5748	5769	5781
30°	5584	5612	5624
35°	5407	5447	5466
40°	5213	5259	5290
45°	5004	5065	5103
50°	4781	4844	4890
55°	4523	4593	4645
60°	4219	4289	4349
65°	3840	3916	4005
70°	3383	3438	3525
75°	2745	2838	2901
80°	2061	2061	2077
85°	1266	1235	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	3.8
10°-20°	607.6	10.8
20°-30°	893.8	15.9
30°-40°	1035.2	18.5
40°-50°	1025.0	18.3
50°-60°	873.9	15.6
60°-70°	610.1	10.9
70°-80°	292.3	5.2
80°-90°	54.5	1.0
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°	1716.1	30.6
0°-40°	2751.2	49.1
0°-60°	4650.1	82.9
0°-90°	5606.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5606.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2276	2276	2276	2276	2276	
5°	2262	2262	2261	2262	2263	215
15°	2156	2155	2156	2158	2160	607
25°	1936	1938	1943	1944	1947	891
35°	1646	1650	1658	1662	1664	1029
45°	1315	1322	1331	1337	1341	1014
55°	964	970	979	987	990	861
65°	603	608	615	625	629	599
75°	264	269	273	276	279	287
85°	41	41	40	38	37	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2276	2276	2276	2276	2276
2.5°	2275	2273	2271	2272	2274
5°	2262	2262	2261	2262	2263
7.5°	2245	2245	2245	2245	2247
10°	2224	2224	2223	2224	2226
12.5°	2194	2194	2193	2194	2196
15°	2156	2155	2156	2158	2160
17.5°	2110	2112	2113	2115	2116
20°	2059	2060	2062	2064	2065
22.5°	2001	2003	2005	2006	2008
25°	1936	1938	1943	1944	1947
27.5°	1868	1870	1875	1879	1881
30°	1797	1799	1806	1808	1810
32.5°	1723	1726	1733	1738	1739
35°	1646	1650	1658	1662	1664
37.5°	1566	1571	1579	1582	1587
40°	1484	1490	1497	1502	1506
42.5°	1401	1406	1415	1423	1424
45°	1315	1322	1331	1337	1341
47.5°	1229	1234	1244	1252	1254
50°	1142	1147	1157	1165	1168
52.5°	1053	1059	1068	1076	1079
55°	964	970	979	987	990
57.5°	874	879	889	897	899
60°	784	788	797	807	808
62.5°	696	698	706	716	721
65°	603	608	615	625	629
67.5°	518	518	525	536	538
70°	430	433	437	445	448
72.5°	347	349	352	359	361
75°	264	269	273	276	279
77.5°	197	195	198	200	201
80°	133	131	133	134	134
82.5°	80	78	80	79	77
85°	41	41	40	38	37
87.5°	18	18	16	14	12
90°	0	0	0	0	0

(END OF REPORT)