

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: P26425

Luminaire Tested: **ORM-G-24-4-LD4-6LO-40-UNV-ASYMRFI-ED**

Test Date: 07/08/15

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: P26425
Test Lab: INNOVATION CENTER-P2
Test Date: 07/08/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORM-G-24-4-LD4-6LO-40-UNV-ASYSYMRFI-ED
Description: FAILSAFE RECESSED OPERATING ROOM FIXTURE
Light Source: (504) ULM2.0 4000K LEDS
2UT217042A8404A
Ballast/Driver: (3) OSRAM ELECTRONIC DRIVER
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

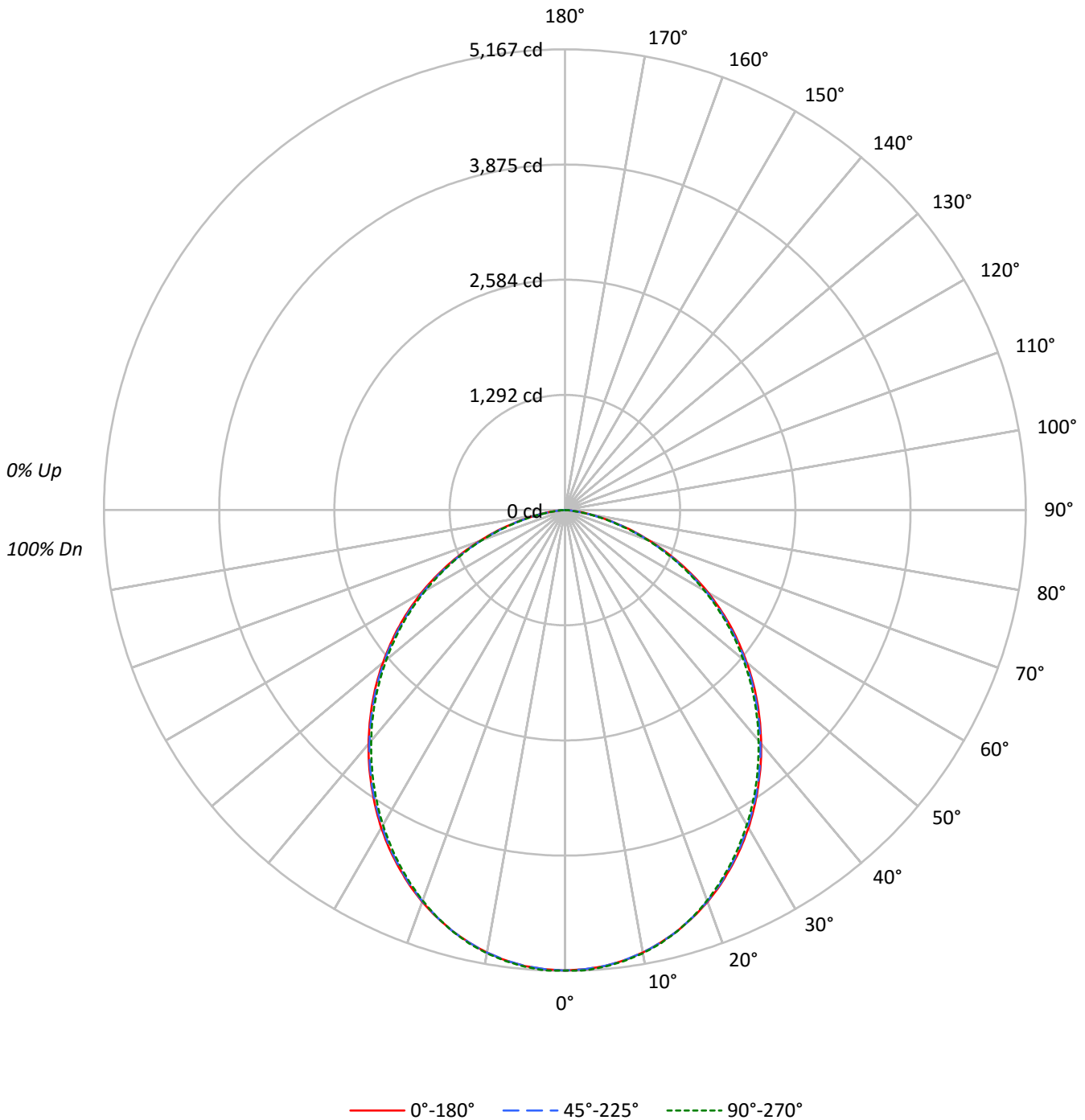
Lumens per Lamp: N/A
Luminaire Lumens: 12759.4 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 143.6
Input Voltage (V): 120.04
Input Current (Ain): 1.2008
Voltage Rise (V): NR
Power Factor: 0.9994
Total Harmonic Distortion (THDi): 8.04%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P26425

CATALOG NUMBER: ORM-G-24-4-LD4-6LO-40-UNV-ASYMRFI-ED

Luminous Intensity Polar Plot





TEST NUMBER: P26425

CATALOG NUMBER: ORM-G-24-4-LD4-6LO-40-UNV-ASYMRFI-ED

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	88	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	75	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	38	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	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°	6948	6948	6948
5°	6933	6930	6942
10°	6883	6883	6895
15°	6803	6803	6807
20°	6694	6684	6674
25°	6553	6537	6511
30°	6395	6365	6336
35°	6210	6191	6141
40°	6012	5989	5933
45°	5805	5766	5712
50°	5574	5530	5467
55°	5313	5255	5196
60°	4994	4919	4863
65°	4575	4486	4444
70°	4009	3934	3910
75°	3306	3213	3150
80°	2356	2286	2263
85°	1281	1250	1158



TEST NUMBER: P26425

CATALOG NUMBER: ORM-G-24-4-LD4-6LO-40-UNV-ASYMMRFI-ED

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.2	3.8
10°-20°	1376.3	10.8
20°-30°	2027.5	15.9
30°-40°	2353.9	18.4
40°-50°	2335.7	18.3
50°-60°	2000.0	15.7
60°-70°	1397.2	11.0
70°-80°	665.1	5.2
80°-90°	116.4	0.9
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°	3891.0	30.5
0°-40°	6244.9	48.9
0°-60°	10580.7	82.9
0°-90°	12759.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12759.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5164	5164	5164	5164	5164	
5°	5133	5132	5131	5142	5140	487
15°	4884	4881	4884	4893	4887	1376
25°	4414	4411	4403	4401	4386	2033
35°	3781	3782	3769	3751	3739	2364
45°	3051	3050	3030	3006	3002	2352
55°	2265	2259	2240	2217	2215	2023
65°	1437	1426	1409	1395	1396	1421
75°	636	628	618	616	606	681
85°	83	83	81	79	75	119
90°	0	0	0	0	0	



TEST NUMBER: P26425

CATALOG NUMBER: ORM-G-24-4-LD4-6LO-40-UNV-ASYSYMRFI-ED

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5164	5164	5164	5164	5164
2.5°	5154	5153	5153	5166	5167
5°	5133	5132	5131	5142	5140
7.5°	5093	5093	5092	5103	5101
10°	5038	5038	5038	5049	5047
12.5°	4967	4966	4968	4978	4975
15°	4884	4881	4884	4893	4887
17.5°	4786	4783	4783	4789	4781
20°	4675	4673	4668	4670	4661
22.5°	4552	4550	4542	4540	4529
25°	4414	4411	4403	4401	4386
27.5°	4271	4269	4256	4250	4235
30°	4116	4111	4097	4091	4078
32.5°	3952	3952	3937	3924	3912
35°	3781	3782	3769	3751	3739
37.5°	3606	3606	3591	3572	3560
40°	3423	3425	3410	3388	3378
42.5°	3238	3241	3220	3201	3193
45°	3051	3050	3030	3006	3002
47.5°	2860	2857	2840	2813	2808
50°	2663	2660	2642	2616	2612
52.5°	2464	2461	2443	2421	2415
55°	2265	2259	2240	2217	2215
57.5°	2061	2053	2035	2013	2012
60°	1856	1846	1828	1808	1807
62.5°	1647	1636	1618	1601	1602
65°	1437	1426	1409	1395	1396
67.5°	1227	1217	1203	1190	1193
70°	1019	1012	1000	988	994
72.5°	828	818	800	802	793
75°	636	628	618	616	606
77.5°	459	452	445	444	442
80°	304	299	295	294	292
82.5°	177	175	172	170	170
85°	83	83	81	79	75
87.5°	27	28	27	26	25
90°	0	0	0	0	0

(END OF REPORT)