

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: 7633.1

Luminaire Tested: **MOR-632T8**

Issue Date: 3/3/2020

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: 7633.1
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MOR-632T8
Description: 2'x4' RECESSED TROFFER(30R)
"OR" .150" THICK ASYMMETRIC LENS REFL=89% WATTS=2
Light Source: 6/32 WATT T8 2900 LUMENS
F32T8/SP35/RS
Ballast/Driver: -

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

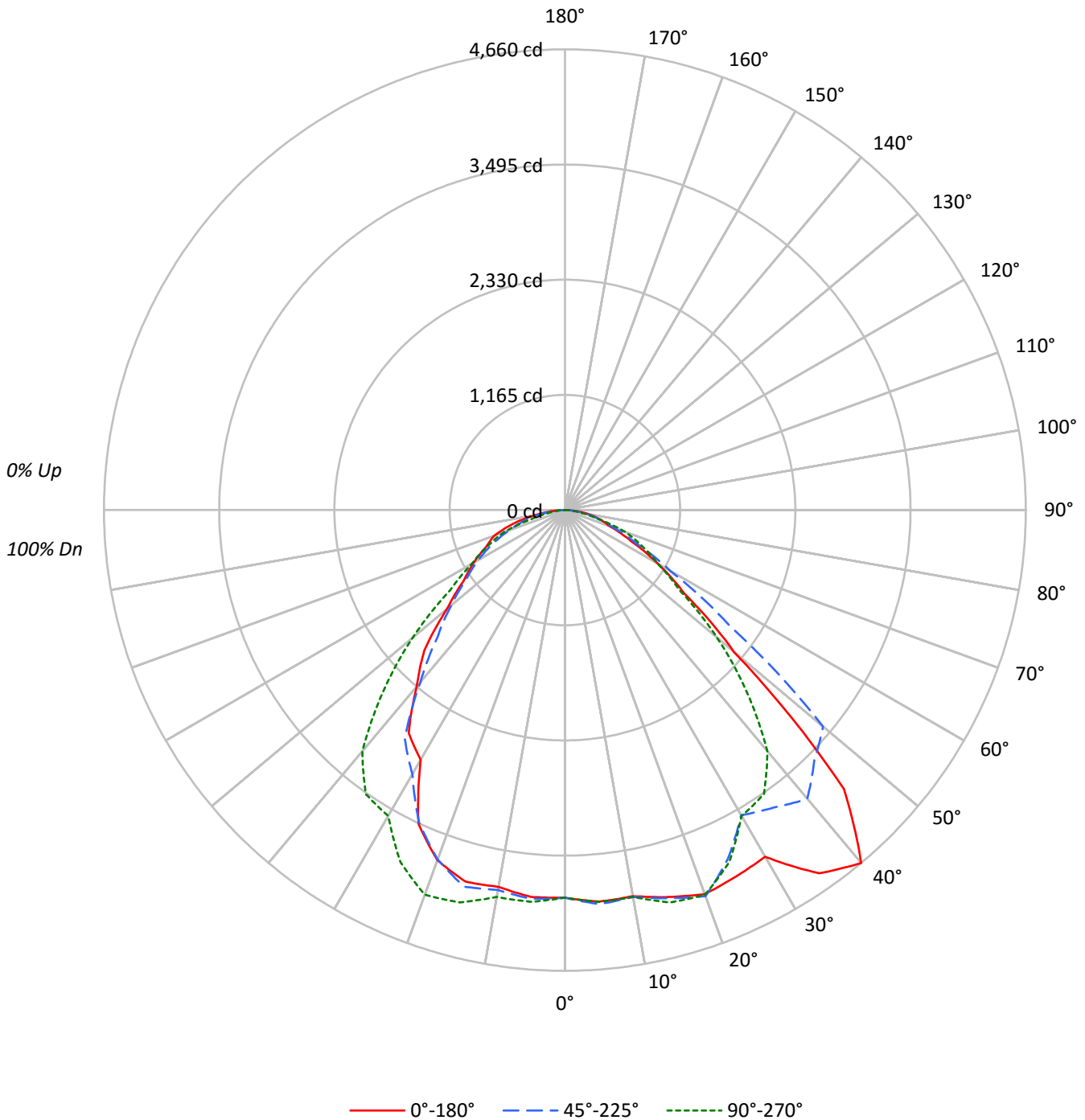
Lumens per Lamp: 2900 (6 lamps)
Luminaire Lumens: 10194.8 lumens
Efficiency: 58.6%
Efficacy: 50.2 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.38 / 1.4
Luminous Opening: Rectangular (W 3.83' x L: 1.79' x H: 0')
CIE Type: Direct

Input Watts (W): 203
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	70	70	70	70	68	68	68	68	65	65	65	62	62	62	60	60	60	60	60	60	59	
1	64	62	60	58	63	61	59	57	58	56	55	56	55	53	54	53	52	54	53	52	51	
2	59	55	51	48	58	54	50	48	52	49	46	50	47	45	48	46	44	48	46	44	43	
3	54	49	44	41	53	48	44	40	46	43	40	44	42	39	43	41	38	43	41	38	37	
4	50	43	39	35	49	43	38	35	41	37	34	40	37	34	39	36	33	39	36	33	32	
5	46	39	34	31	45	38	34	30	37	33	30	36	33	30	35	32	29	35	32	29	28	
6	43	35	30	27	42	35	30	27	34	30	27	33	29	26	32	29	26	32	29	26	25	
7	40	32	27	24	39	32	27	24	31	27	24	30	26	23	29	26	23	29	26	23	22	
8	37	29	25	21	36	29	25	21	28	24	21	28	24	21	27	24	21	27	24	21	20	
9	35	27	22	19	34	27	22	19	26	22	19	25	22	19	25	21	19	25	21	19	18	
10	33	25	21	18	32	25	20	18	24	20	17	24	20	17	23	20	17	23	20	17	16	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6143	6143	6143
5°	6253	6256	6177
10°	6308	6322	6157
15°	6574	6665	6311
20°	6892	6904	6285
25°	7072	6797	6055
30°	7325	6465	5275
35°	8580	6711	5267
40°	9533	6516	4762
45°	8843	5764	4455
50°	5449	4900	3786
55°	4041	3874	3415
60°	3401	3407	3335
65°	2722	3193	3256
70°	2231	3010	3482
75°	2252	2095	3312
80°	2238	1507	2897
85°	2086	1187	2589



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	377.4	3.7	2.2	0°	3920	3920	3920	3920	3920	
10°-20°	1135.7	11.1	6.5	5°	3975	4000	3977	3947	3927	378
20°-30°	1728.6	17.0	9.9	15°	4052	4063	4108	3943	3890	1150
30°-40°	2100.2	20.6	12.1	25°	4090	3896	3931	3487	3502	1892
40°-50°	2073.4	20.3	11.9	35°	4485	3674	3508	2822	2753	2782
50°-60°	1377.6	13.5	7.9	45°	3990	3569	2601	1824	2010	2859
60°-70°	847.2	8.3	4.9	55°	1479	2022	1418	1216	1250	1400
70°-80°	431.9	4.2	2.5	65°	734	797	861	801	878	751
80°-90°	122.8	1.2	0.7	75°	372	360	346	431	547	390
90°-100°	0.0	0.0	0.0	85°	116	96	66	109	144	133
100°-110°	0.0	0.0	0.0	90°	9	8	9	12	12	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	3241.7	31.8	18.6							
0°-40°	5341.9	52.4	30.7							
0°-60°	8792.8	86.2	50.5							
0°-90°	10194.8	100.0	58.6							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	10194.8	100.0	58.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3920	3920	3920	3920	3920	3920	3920	3920	3920
5°	3975	3975	4000	3971	3977	3960	3947	3960	3927
10°	3964	3968	3973	3992	3973	3955	3901	3894	3869
15°	4052	4048	4063	4122	4108	4048	3943	3955	3890
20°	4133	4152	4156	4235	4140	3910	3759	3735	3769
25°	4090	3974	3896	3970	3931	3673	3487	3550	3502
30°	4048	3883	3565	3586	3573	3227	3083	2957	2915
35°	4485	4318	3674	3565	3508	3022	2822	2741	2753
40°	4660	4440	3813	3296	3185	2473	2273	2246	2328
45°	3990	4281	3569	2949	2601	1872	1824	1960	2010
50°	2235	2462	3407	2462	2010	1430	1499	1547	1553
55°	1479	1577	2022	1769	1418	1077	1216	1267	1250
60°	1085	1146	1234	1678	1087	885	1013	1115	1064
65°	734	809	797	1025	861	680	801	898	878
70°	487	534	531	611	657	504	599	757	760
75°	372	362	360	368	346	343	431	537	547
80°	248	244	211	196	167	201	261	305	321
85°	116	119	96	88	66	85	109	136	144
90°	9	9	8	8	9	12	12	12	12

(END OF REPORT)