

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: 5890

Luminaire Tested: **CFL-12-240**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 5890
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CFL-12-240
Description: FAIL-SAFE
Light Source: F40T12/CW 3150 LUMENS
Ballast/Driver: -

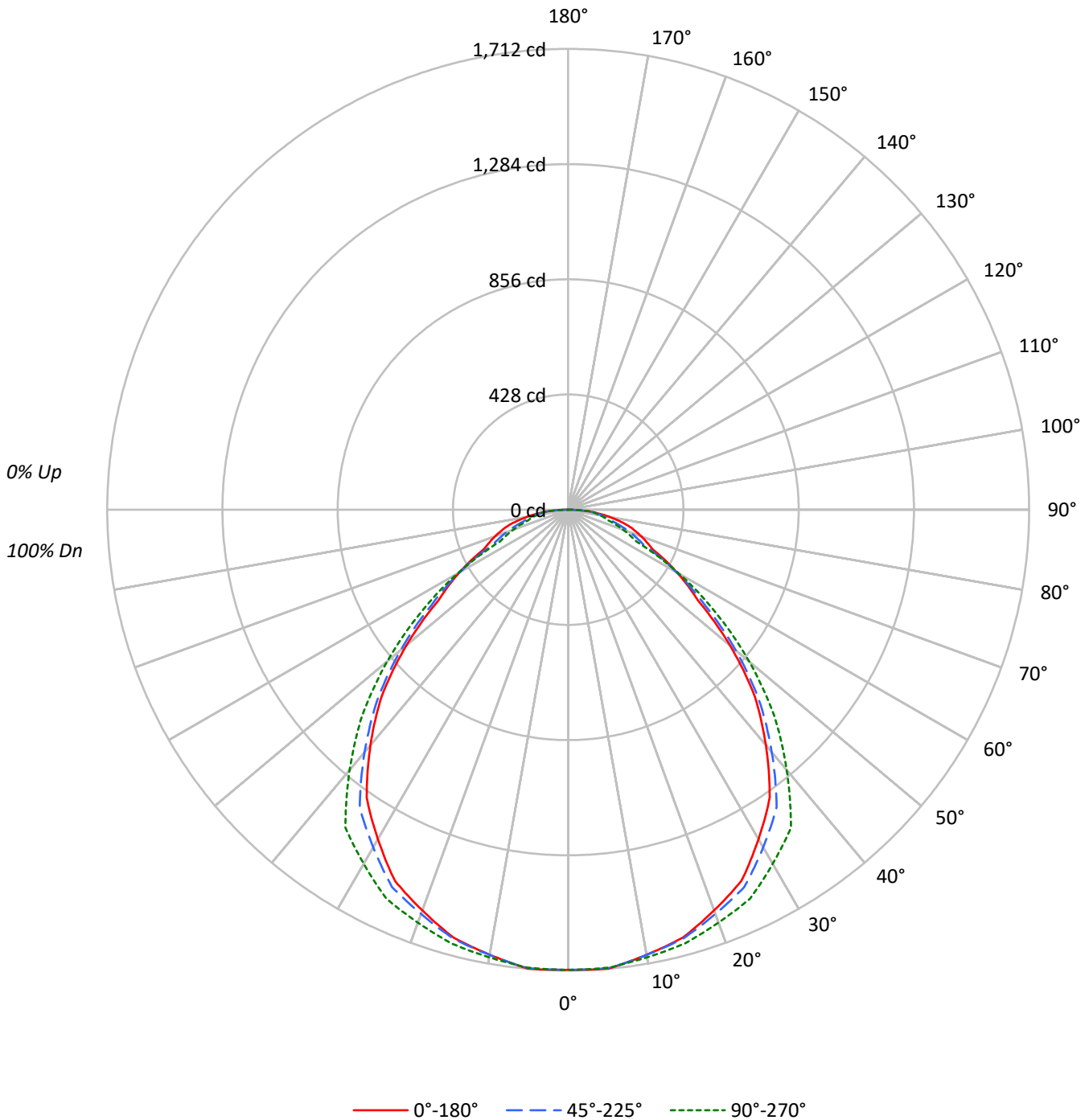
Summary

Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 4152.9 lumens
Efficiency: 65.9%
Efficacy: 26.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.32 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 158
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																				
0	79	79	79	79	77	77	77	77	73	73	73		70	70	70		67	67	67	66
1	72	69	67	64	71	68	66	63	65	63	61		63	61	60		60	59	58	56
2	66	61	57	54	65	60	56	53	58	55	52		56	53	51		54	51	49	48
3	61	54	49	45	59	53	49	45	51	47	44		50	46	43		48	45	43	41
4	56	49	43	39	55	48	43	39	46	42	38		45	41	38		43	40	37	36
5	52	44	38	34	50	43	38	34	42	37	33		40	36	33		39	36	33	31
6	48	40	34	30	47	39	34	30	38	33	30		37	33	29		36	32	29	28
7	45	36	31	27	44	36	30	27	35	30	26		34	29	26		33	29	26	25
8	42	33	28	24	41	33	27	24	32	27	24		31	27	24		30	26	23	22
9	39	30	25	22	38	30	25	22	29	25	21		29	24	21		28	24	21	20
10	37	28	23	20	36	28	23	20	27	23	20		27	22	19		26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4600	4600	4600
5°	4598	4530	4515
10°	4537	4417	4419
15°	4510	4338	4358
20°	4435	4236	4284
25°	4391	4164	4243
30°	4239	3991	4125
35°	4107	3839	4033
40°	3813	3486	3666
45°	3508	3126	3296
50°	3055	2692	2830
55°	2535	2216	2323
60°	2265	1813	1786
65°	1934	1339	1156
70°	1937	1190	1012
75°	1960	1003	834
80°	1816	886	776
85°	1531	714	696



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	162.2	3.9	2.6	0°	1710	1710	1710	1710	1710	
10°-20°	465.6	11.2	7.4	5°	1712	1710	1710	1709	1708	162
20°-30°	708.3	17.1	11.2	15°	1646	1648	1650	1659	1669	462
30°-40°	831.3	20.0	13.2	25°	1522	1534	1547	1571	1596	694
40°-50°	778.6	18.7	12.4	35°	1305	1327	1350	1396	1442	803
50°-60°	578.6	13.9	9.2	45°	980	991	1003	1043	1082	746
60°-70°	355.5	8.6	5.6	55°	588	605	622	647	672	561
70°-80°	202.2	4.9	3.2	65°	344	327	310	294	279	375
80°-90°	73.3	1.8	1.2	75°	232	204	176	166	155	237
90°-100°	0.0	0.0	0.0	85°	85	83	82	84	87	87
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
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°	1336.0	32.2	21.2							
0°-40°	2167.3	52.2	34.4							
0°-60°	3524.5	84.9	55.9							
0°-90°	4155.4	100.1	66.0							
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°	4152.9	100.0	65.9							



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CANDELA DISTRIBUTION (FULL):

	0°	45°	90°
0°	1709.5	1709.5	1709.5
5°	1711.5	1709.5	1708.0
15°	1646.0	1649.5	1669.0
25°	1522.0	1547.0	1595.5
35°	1305.0	1349.5	1442.5
45°	979.5	1003.0	1082.5
55°	588.5	621.5	672.0
65°	344.5	310.0	279.0
75°	232.5	176.0	155.0
85°	85.0	81.5	87.0
90°	0.0	0.0	0.0

(END OF REPORT)