

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: 10852.0

Luminaire Tested: **TRO11-C-126CT**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 10852.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: TRO11-C-126CT
Description: FAIL-SAFE COMPACT FLUOR TRIPLE LAMP 11"DIA CEILING LUMINAIRE
WHITE FLAT REFLECTOR w/INTERNAL RADIAL RIBBED LENS
Light Source: 1/26W 1800 LUMENS
WATTS=29
CF26DT/E/IN/835
Ballast/Driver: ENERGY SAVINGS BLST #ES-1-CFH-42-32-26-UNV-D

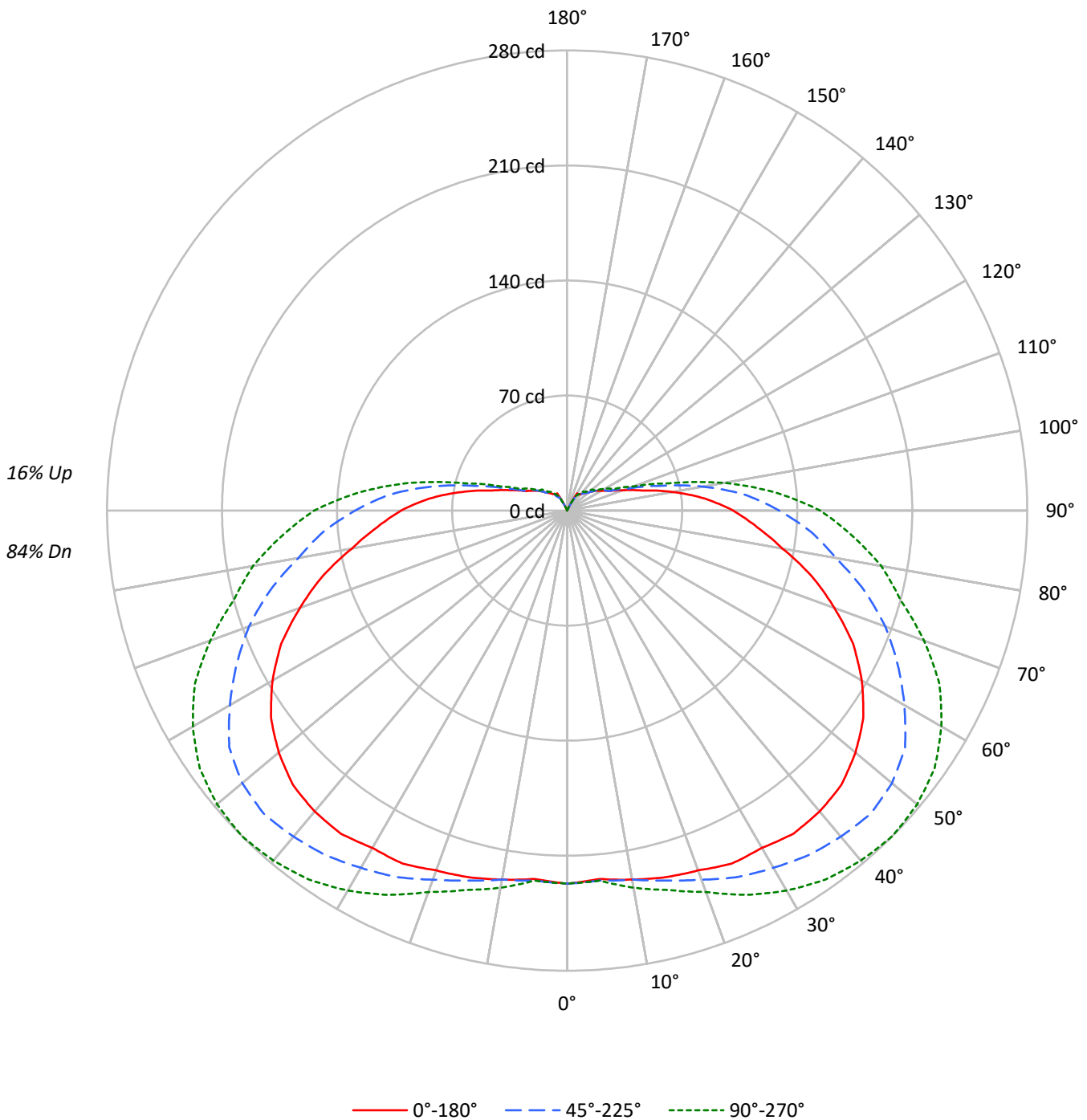
Summary

Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 1607.5 lumens
Efficiency: 89.3%
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 1.6 / 1.81 / 1.86
Luminous Opening: (L: 0.9 ' x W: 0 ' x H: 0.29 '
CIE Type: Semi-Direct

Input Watts (W): 29
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	103	103	103	103	99	99	99	99	92	92	92		85	85	85		78	78	78	75
1	90	84	78	73	86	80	75	71	74	70	66		68	65	62		62	60	57	54
2	80	70	63	56	76	67	60	54	62	56	51		57	52	48		52	48	45	42
3	72	60	52	45	68	58	50	43	53	46	41		49	43	38		44	40	36	33
4	65	52	43	36	62	50	42	35	46	39	33		42	36	31		39	34	29	27
5	59	46	37	30	56	44	36	30	41	33	28		37	31	26		34	29	25	22
6	54	41	32	26	51	39	31	25	36	29	24		33	27	22		31	25	21	19
7	50	37	28	22	47	35	27	22	33	26	21		30	24	19		28	22	18	16
8	46	33	25	19	44	32	24	19	30	23	18		27	21	17		25	20	16	14
9	43	30	22	17	41	29	22	17	27	20	16		25	19	15		23	18	14	12
10	40	28	20	15	38	27	20	15	25	19	14		23	17	13		21	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	21.7	1.4	1.2	0°	227	227	227	227	227	
10°-20°	66.5	4.1	3.7	5°	225	224	226	229	226	22
20°-30°	113.7	7.1	6.3	15°	231	231	233	236	239	65
30°-40°	160.5	10.0	8.9	25°	237	237	246	252	258	109
40°-50°	200.0	12.4	11.1	35°	240	244	256	267	274	150
50°-60°	221.7	13.8	12.3	45°	236	243	261	276	280	182
60°-70°	219.2	13.6	12.2	55°	220	229	251	267	273	196
70°-80°	194.6	12.1	10.8	65°	192	202	222	243	250	189
80°-90°	160.3	10.0	8.9	75°	154	162	187	205	210	162
90°-100°	116.7	7.3	6.5	85°	116	125	149	169	174	98
100°-110°	63.0	3.9	3.5	90°	101	110	129	149	154	55
110°-120°	30.5	1.9	1.7	95°	84	94	109	123	127	64
120°-130°	18.9	1.2	1.0	105°	47	50	58	65	64	52
130°-140°	11.9	0.7	0.7	115°	28	27	28	31	31	29
140°-150°	7.1	0.4	0.4	125°	21	20	21	21	21	19
150°-160°	1.2	0.1	0.1	135°	15	13	15	16	16	12
160°-170°	0.0	0.0	0.0	145°	12	10	10	12	12	8
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	2
0°-30°	202.0	12.6	11.2	165°	0	0	0	0	0	0
0°-40°	362.5	22.5	20.1	175°	0	0	0	0	0	0
0°-60°	784.2	48.8	43.6	180°	0	0	0	0	0	0
0°-90°	1358.3	84.5	75.5							
90°-120°	210.2	13.1	11.7							
90°-150°	248.1	15.4	13.8							
90°-180°	249.0	15.5	13.8							
0°-180°	1607.5	100.0	89.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	227	227	227	227	227
5°	225	224	226	229	226
10°	228	231	228	232	233
15°	231	231	233	236	239
20°	233	235	239	244	247
25°	237	237	246	252	258
30°	237	241	251	259	267
35°	240	244	256	267	274
40°	239	244	259	273	278
45°	236	243	261	276	280
50°	229	237	258	274	278
55°	220	229	251	267	273
60°	207	218	237	256	263
65°	192	202	222	243	250
70°	173	184	206	222	231
75°	154	162	187	205	210
80°	133	143	166	187	194
85°	116	125	149	169	174
90°	101	110	129	149	154
95°	84	94	109	123	127
100°	65	72	84	95	97
105°	47	50	58	65	64
110°	36	38	39	45	43
115°	28	27	28	31	31
120°	24	23	25	25	27
125°	21	20	21	21	21
130°	17	17	17	19	20
135°	15	13	15	16	16
140°	13	12	13	15	15
145°	12	10	10	12	12
150°	12	9	9	9	10
155°	0	0	0	0	0
160°	0	0	0	0	0
165°	0	0	0	0	0
170°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)