

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: 262p104

Luminaire Tested: **SGI-G-217-UNV-CA08**

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: 262p104
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: SGI-G-217-UNV-CA08
Description: 2X2 RECESSED TROFFER, 2 LAMP 17W, PERF. BASKET WITH COATED INLAY, CLEAR PLASTIC LENS
Light Source: TWO 2' T8 LINEAR FLUORESCENT LAMPS
F17T8 17 WATTS
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

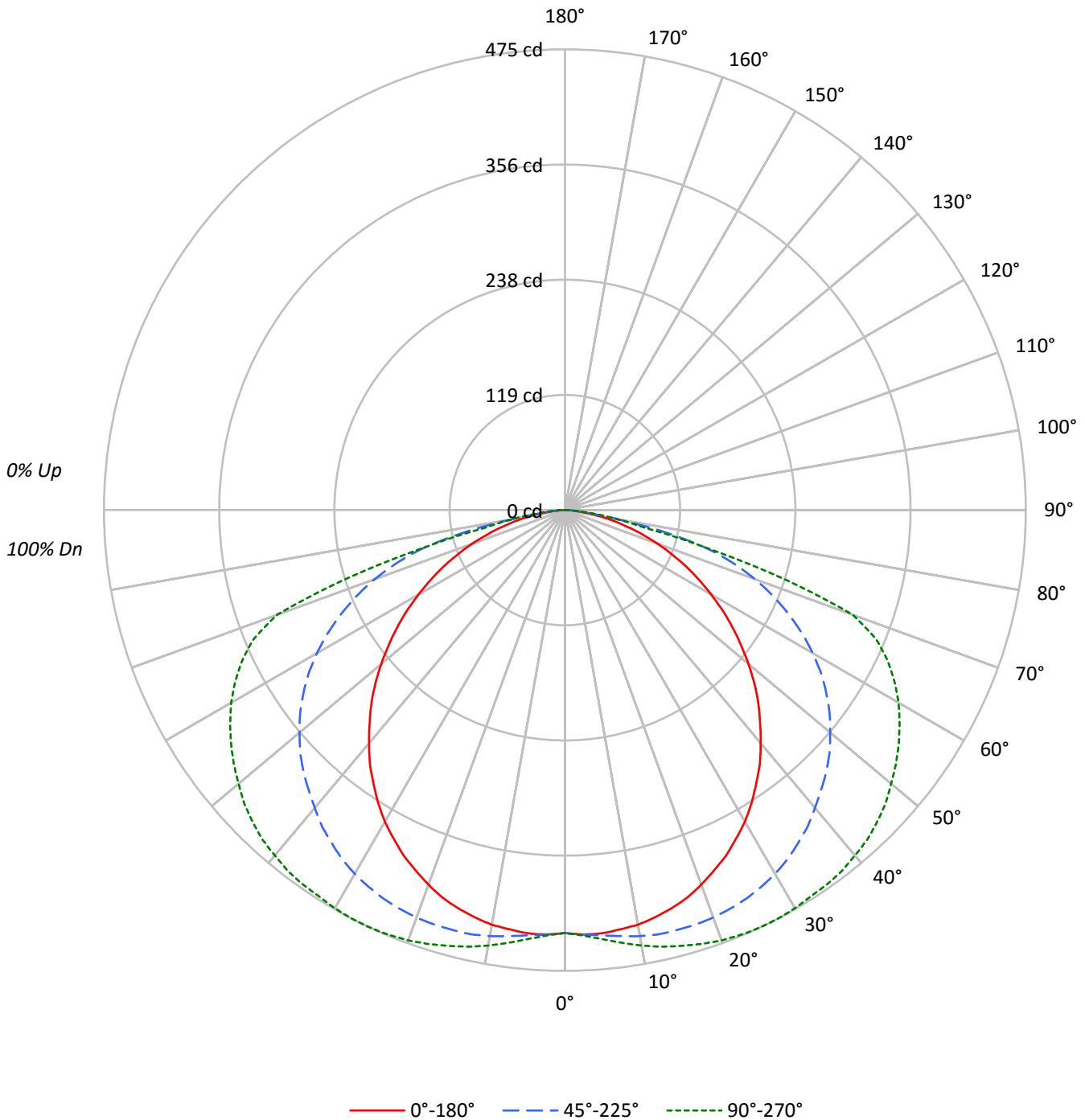
Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 1617.7 lumens
Efficiency: 62.2%
Efficacy: 53.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.63 / 1.59
Luminous Opening: Rectangular (W 1.79' x L: 1.79' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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	0
RCR																		
0	74	74	74	74	72	72	72	72	69	69	69	66	66	66	63	63	63	62
1	67	64	61	59	66	63	60	58	60	58	56	58	56	54	55	54	53	51
2	61	55	51	47	59	54	50	46	52	48	45	50	47	44	48	45	43	42
3	55	48	43	38	53	47	42	38	45	41	37	43	40	37	42	39	36	35
4	50	42	36	32	49	41	36	32	40	35	31	38	34	31	37	33	30	29
5	46	37	31	27	44	37	31	27	35	30	27	34	30	26	33	29	26	25
6	42	33	28	23	41	33	27	23	32	27	23	31	26	23	30	26	23	21
7	39	30	24	20	38	30	24	20	29	24	20	28	23	20	27	23	20	19
8	36	27	22	18	35	27	22	18	26	21	18	25	21	18	25	21	18	16
9	34	25	20	16	33	25	20	16	24	19	16	23	19	16	23	19	16	15
10	32	23	18	15	31	23	18	14	22	18	14	21	17	14	21	17	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1462	1462	1462
5°	1474	1481	1494
10°	1478	1519	1553
15°	1475	1555	1614
20°	1467	1595	1684
25°	1454	1635	1757
30°	1436	1677	1835
35°	1408	1715	1928
40°	1374	1755	2035
45°	1337	1807	2158
50°	1289	1862	2290
55°	1234	1923	2455
60°	1167	1978	2662
65°	1095	2023	2912
70°	1000	2049	3098
75°	868	1956	1982
80°	695	1101	1081
85°	462	577	577



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	42.2	2.6	1.6	0°	436	436	436	436	436	
10°-20°	126.4	7.8	4.9	5°	438	438	440	442	444	42
20°-30°	202.4	12.5	7.8	15°	425	433	448	460	465	120
30°-40°	259.6	16.0	10.0	25°	393	413	442	465	475	181
40°-50°	290.6	18.0	11.2	35°	344	376	419	455	471	215
50°-60°	289.1	17.9	11.1	45°	282	323	381	434	455	217
60°-70°	251.2	15.5	9.7	55°	211	258	329	392	420	189
70°-80°	136.0	8.4	5.2	65°	138	181	255	332	367	137
80°-90°	20.3	1.3	0.8	75°	67	92	151	161	153	71
90°-100°	0.0	0.0	0.0	85°	12	13	15	16	15	16
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°	371.1	22.9	14.3							
0°-40°	630.7	39.0	24.3							
0°-60°	1210.3	74.8	46.6							
0°-90°	1617.7	100.0	62.2							
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°	1617.7	100.0	62.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	436	436	436	436	436
2.5°	438	437	438	438	439
5°	438	438	440	442	444
7.5°	436	438	443	448	450
10°	434	437	446	453	456
12.5°	430	436	448	457	461
15°	425	433	448	460	465
17.5°	419	430	448	463	469
20°	411	425	447	465	472
22.5°	402	420	445	465	474
25°	393	413	442	465	475
27.5°	382	405	438	465	475
30°	371	397	433	462	474
32.5°	358	387	427	459	472
35°	344	376	419	455	471
37.5°	330	364	411	451	469
40°	314	351	401	446	465
42.5°	298	338	391	441	461
45°	282	323	381	434	455
47.5°	265	308	370	425	448
50°	247	292	357	415	439
52.5°	229	275	344	404	430
55°	211	258	329	392	420
57.5°	193	239	313	379	409
60°	174	220	295	365	397
62.5°	156	201	276	349	383
65°	138	181	255	332	367
67.5°	120	160	233	311	347
70°	102	138	209	285	316
72.5°	84	115	182	237	238
75°	67	92	151	161	153
77.5°	51	69	107	90	85
80°	36	47	57	55	56
82.5°	22	27	29	32	33
85°	12	13	15	16	15
87.5°	5	5	6	6	6
90°	0	0	0	0	0

(END OF REPORT)