

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: P307331

Luminaire Tested: **14FCZ2-25-UNV-L82765-RDP-CP250-W2A-U-2700K**

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: P307331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-UNV-L82765-RDP-CP250-W2A-U-2700K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.250" POLYCARB SHEET
Light Source: (168) 2700K TUNABLE CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC 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: N/A
Luminaire Lumens: 1280.9 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

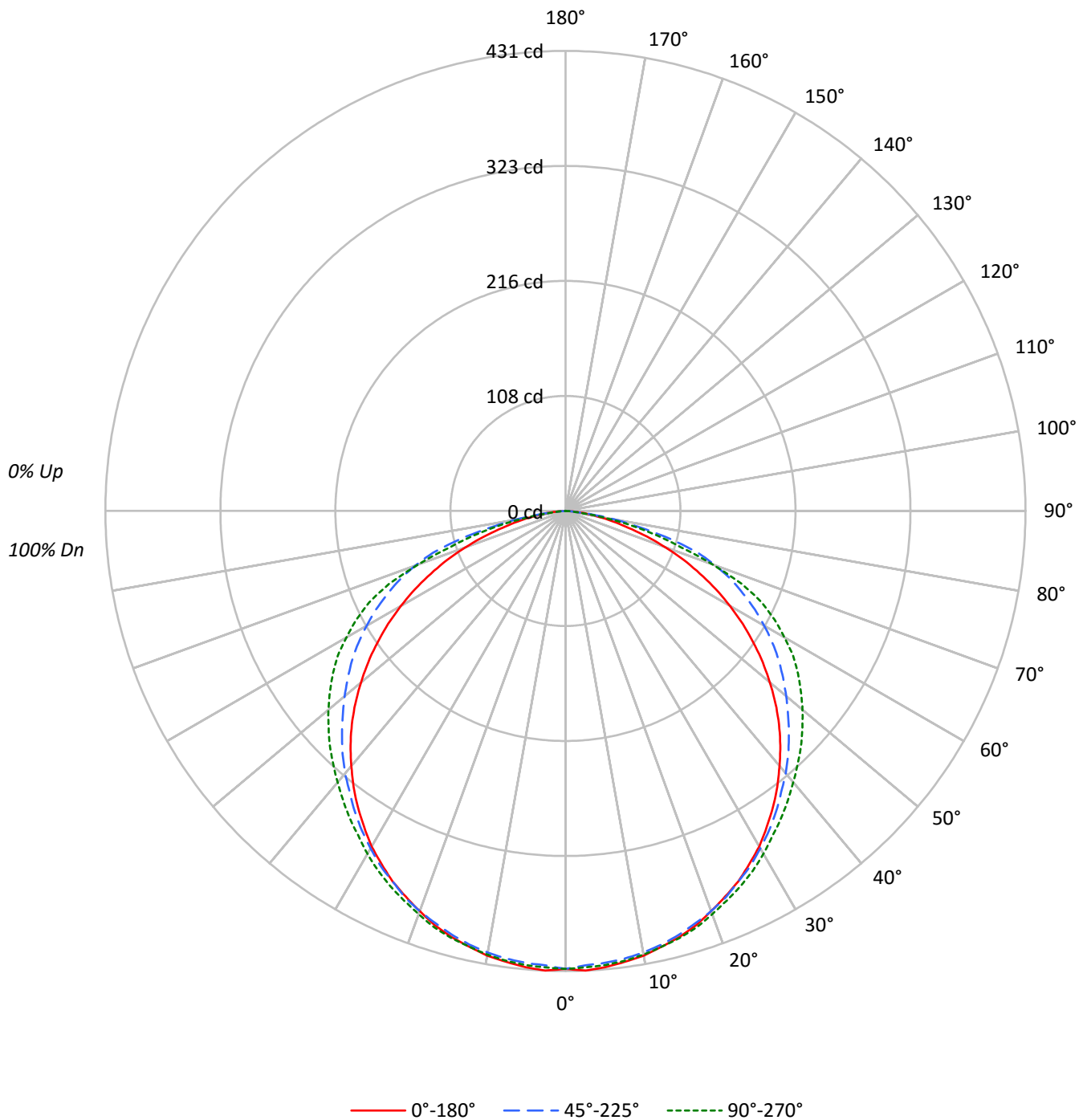
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1154	1154	1154
5°	1159	1148	1153
10°	1156	1148	1153
15°	1151	1145	1153
20°	1143	1143	1151
25°	1137	1137	1152
30°	1128	1134	1153
35°	1114	1130	1156
40°	1096	1128	1166
45°	1077	1126	1187
50°	1047	1130	1214
55°	1009	1145	1248
60°	958	1157	1276
65°	885	1172	1293
70°	787	1180	1157
75°	634	1061	925
80°	496	744	604
85°	340	216	154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	3.2
10°-20°	116.5	9.1
20°-30°	177.4	13.8
30°-40°	216.1	16.9
40°-50°	229.2	17.9
50°-60°	216.3	16.9
60°-70°	174.7	13.6
70°-80°	94.8	7.4
80°-90°	15.3	1.2
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°	334.5	26.1
0°-40°	550.6	43.0
0°-60°	996.1	77.8
0°-90°	1280.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1280.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	429	429	429	429	429	
5°	429	428	425	428	427	41
15°	413	412	411	414	414	117
25°	383	382	383	387	388	176
35°	339	341	344	351	352	212
45°	283	287	296	307	312	218
55°	215	224	244	260	266	192
65°	139	156	184	199	203	138
75°	61	89	102	92	89	67
85°	11	12	7	6	5	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	429	429	429	429	429
2.5°	431	429	426	429	428
5°	429	428	425	428	427
7.5°	426	426	423	425	425
10°	423	422	420	423	422
12.5°	418	417	416	419	418
15°	413	412	411	414	414
17.5°	407	406	405	409	409
20°	399	399	399	403	402
22.5°	391	391	392	396	395
25°	383	382	383	387	388
27.5°	373	374	375	379	380
30°	363	364	365	370	371
32.5°	351	353	355	361	361
35°	339	341	344	351	352
37.5°	326	328	332	340	342
40°	312	315	321	329	332
42.5°	298	302	309	318	322
45°	283	287	296	307	312
47.5°	267	272	283	297	301
50°	250	257	270	285	290
52.5°	233	241	257	273	278
55°	215	224	244	260	266
57.5°	197	207	230	247	253
60°	178	190	215	232	237
62.5°	159	173	200	217	221
65°	139	156	184	199	203
67.5°	120	140	168	179	179
70°	100	122	150	153	147
72.5°	80	105	130	119	114
75°	61	89	102	92	89
77.5°	46	72	72	66	64
80°	32	55	48	42	39
82.5°	21	31	25	20	17
85°	11	12	7	6	5
87.5°	4	2	1	2	1
90°	0	0	0	0	0

(END OF REPORT)