

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: P307339

Luminaire Tested: **14FCZ2-25-UNV-L82765-RDP-CP250-W2A-U-6500K**

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: P307339
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-6500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.250" POLYCARB SHEET
Light Source: (168) 6500K 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: 1459.0 lumens
Efficiency: N/A
Efficacy: 71.2 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

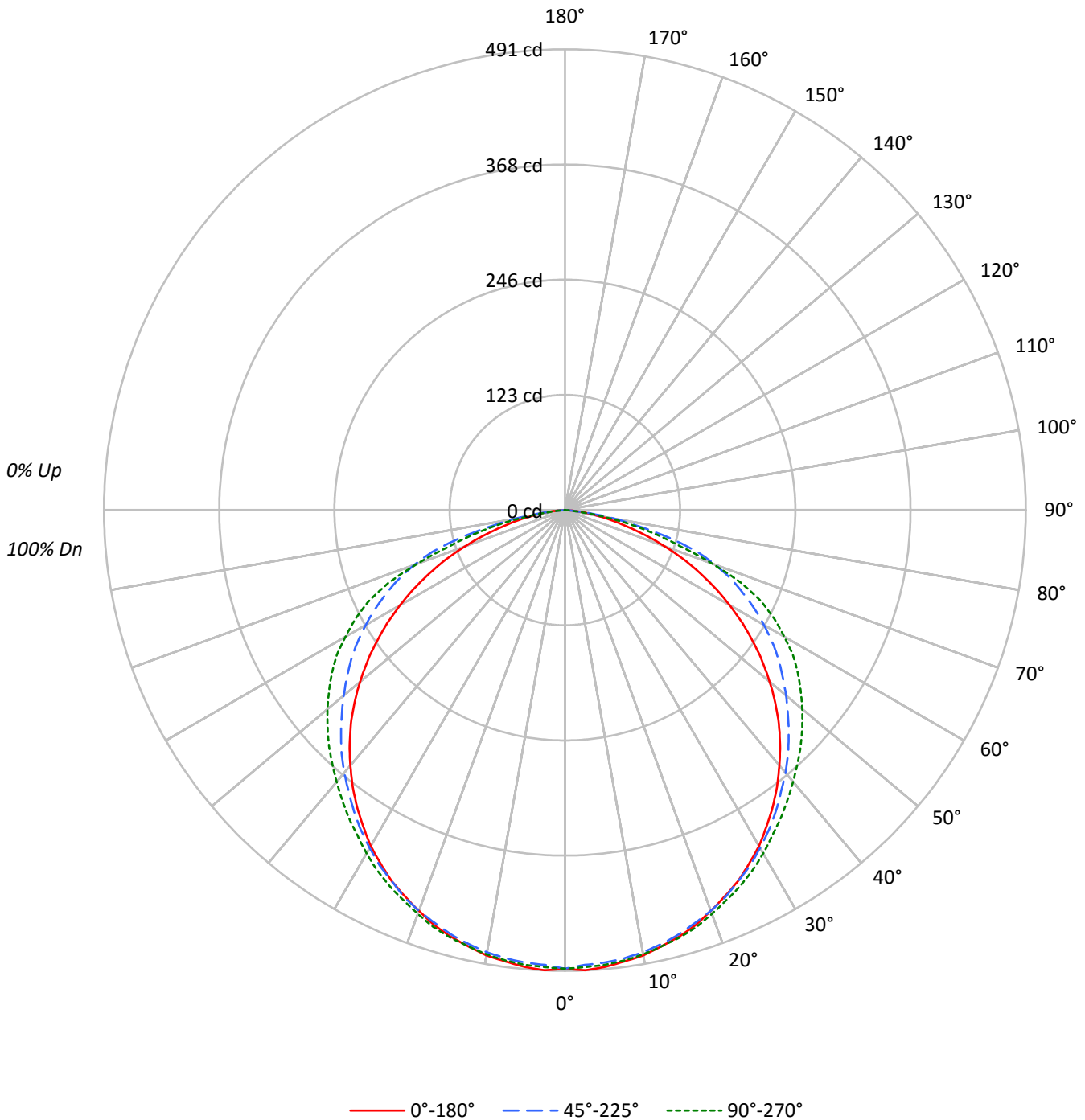
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1315	1315	1315
5°	1320	1308	1314
10°	1317	1307	1314
15°	1310	1304	1314
20°	1302	1302	1311
25°	1295	1295	1312
30°	1285	1292	1313
35°	1268	1287	1317
40°	1248	1284	1329
45°	1227	1283	1353
50°	1192	1287	1383
55°	1149	1304	1422
60°	1091	1318	1453
65°	1008	1335	1472
70°	896	1345	1317
75°	723	1208	1054
80°	564	848	688
85°	386	247	176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	3.2
10°-20°	132.7	9.1
20°-30°	202.1	13.8
30°-40°	246.1	16.9
40°-50°	261.1	17.9
50°-60°	246.4	16.9
60°-70°	199.0	13.6
70°-80°	107.9	7.4
80°-90°	17.5	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°	381.0	26.1
0°-40°	627.1	43.0
0°-60°	1134.6	77.8
0°-90°	1459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	489	488	484	488	486	46
15°	470	469	468	472	472	133
25°	436	435	436	441	442	201
35°	386	388	392	400	401	241
45°	322	327	337	350	355	248
55°	245	255	278	296	303	219
65°	158	178	210	227	231	157
75°	70	101	116	105	101	76
85°	12	14	8	7	6	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	488.7	488.7	488.7	488.7	488.7
2.5°	490.9	488.7	485.2	488.7	487.5
5°	488.7	487.5	484.1	487.5	486.4
7.5°	485.2	485.2	481.8	484.1	484.1
10°	481.8	480.7	478.4	481.8	480.7
12.5°	476.1	475.0	473.8	477.3	476.1
15°	470.4	469.3	468.2	471.6	471.6
17.5°	463.6	462.5	461.3	465.9	465.9
20°	454.5	454.5	454.5	459.0	457.9
22.5°	445.4	445.4	446.5	451.1	449.9
25°	436.3	435.1	436.3	440.8	442.0
27.5°	424.9	426.0	427.1	431.7	432.8
30°	413.5	414.6	415.8	421.5	422.6
32.5°	399.8	402.1	404.4	411.2	411.2
35°	386.1	388.4	391.8	399.8	400.9
37.5°	371.3	373.6	378.2	387.3	389.6
40°	355.4	358.8	365.6	374.8	378.2
42.5°	339.4	344.0	352.0	362.2	366.8
45°	322.4	326.9	337.2	349.7	355.4
47.5°	304.1	309.8	322.4	338.3	342.9
50°	284.8	292.7	307.5	324.6	330.3
52.5°	265.4	274.5	292.7	311.0	316.7
55°	244.9	255.1	277.9	296.2	303.0
57.5°	224.4	235.8	262.0	281.3	288.2
60°	202.8	216.4	244.9	264.3	270.0
62.5°	181.1	197.1	227.8	247.2	251.7
65°	158.3	177.7	209.6	226.7	231.2
67.5°	136.7	159.5	191.4	203.9	203.9
70°	113.9	139.0	170.9	174.3	167.4
72.5°	91.1	119.6	148.1	135.5	129.9
75°	69.5	101.4	116.2	104.8	101.4
77.5°	52.4	82.0	82.0	75.2	72.9
80°	36.4	62.6	54.7	47.8	44.4
82.5°	23.9	35.3	28.5	22.8	19.4
85°	12.5	13.7	8.0	6.8	5.7
87.5°	4.6	2.3	1.1	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)