

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: P307951

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CP125-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: P307951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-35-UNV-L82765-S-CP125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" 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: 3476.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

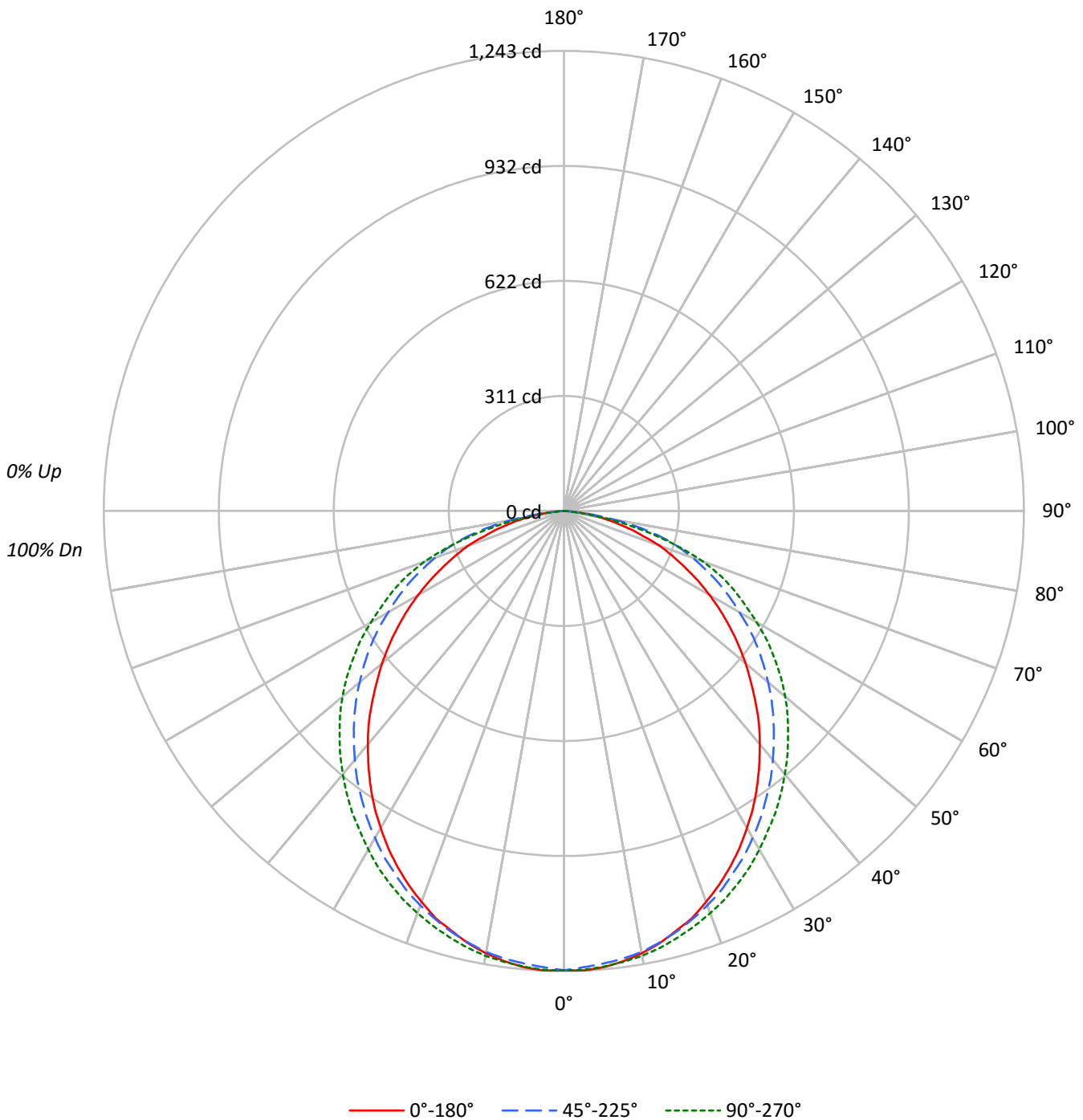
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3339	3339	3339
5°	3343	3315	3338
10°	3315	3306	3334
15°	3270	3279	3322
20°	3218	3247	3312
25°	3152	3208	3301
30°	3074	3170	3283
35°	2989	3125	3272
40°	2894	3088	3263
45°	2788	3050	3260
50°	2684	3016	3268
55°	2571	2992	3258
60°	2449	2950	3237
65°	2304	2941	3237
70°	2169	2915	3146
75°	1882	2849	2688
80°	1522	2297	1790
85°	1010	800	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	3.4
10°-20°	333.4	9.6
20°-30°	500.2	14.4
30°-40°	596.6	17.2
40°-50°	616.8	17.7
50°-60°	563.1	16.2
60°-70°	443.2	12.7
70°-80°	258.0	7.4
80°-90°	47.5	1.4
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°	950.8	27.4
0°-40°	1547.4	44.5
0°-60°	2727.3	78.5
0°-90°	3476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1237	1234	1227	1237	1236	117
15°	1174	1175	1177	1193	1193	331
25°	1062	1067	1081	1106	1112	489
35°	910	922	951	988	996	569
45°	732	757	801	846	856	566
55°	548	577	638	684	694	490
65°	362	400	462	498	508	359
75°	181	224	274	269	258	192
85°	33	46	26	21	17	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.9	1240.9	1240.9	1240.9	1240.9
2.5°	1242.6	1239.2	1234.0	1242.6	1240.9
5°	1237.4	1234.0	1227.1	1237.4	1235.7
7.5°	1227.1	1223.6	1220.2	1230.5	1228.8
10°	1213.3	1211.6	1209.9	1221.9	1220.2
12.5°	1196.1	1196.1	1194.3	1208.1	1208.1
15°	1173.7	1175.4	1177.1	1192.6	1192.6
17.5°	1153.0	1151.3	1156.4	1173.7	1175.4
20°	1123.7	1127.1	1134.0	1154.7	1156.4
22.5°	1094.4	1097.8	1109.9	1130.6	1135.7
25°	1061.6	1066.8	1080.6	1106.4	1111.6
27.5°	1027.2	1034.1	1053.0	1080.6	1085.8
30°	989.3	999.6	1020.3	1051.3	1056.5
32.5°	951.3	961.7	987.5	1018.6	1025.4
35°	910.0	922.0	951.3	987.5	996.1
37.5°	866.9	882.4	916.9	953.1	963.4
40°	823.8	841.0	879.0	916.9	928.9
42.5°	780.7	798.0	839.3	882.4	894.5
45°	732.5	756.6	801.4	846.2	856.5
47.5°	685.9	711.8	761.8	806.6	820.4
50°	641.1	667.0	720.4	766.9	780.7
52.5°	594.6	622.2	679.0	727.3	739.4
55°	548.1	577.4	637.7	684.2	694.5
57.5°	501.5	532.5	594.6	639.4	651.5
60°	455.0	487.7	548.1	592.9	601.5
62.5°	408.5	442.9	505.0	544.6	553.2
65°	361.9	399.8	461.9	498.1	508.4
67.5°	317.1	355.0	415.3	449.8	458.4
70°	275.7	310.2	370.5	396.4	399.8
72.5°	224.0	267.1	325.7	339.5	330.9
75°	181.0	224.0	274.0	268.9	258.5
77.5°	137.9	181.0	213.7	196.5	182.7
80°	98.2	141.3	148.2	122.4	115.5
82.5°	63.8	98.2	82.7	63.8	51.7
85°	32.7	46.5	25.9	20.7	17.2
87.5°	10.3	6.9	3.4	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)