

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: P308851

Luminaire Tested: **22FCZ2-44HE-UNV-L82765-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: P308851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-33)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22FCZ2-44HE-UNV-L82765-CP125-W2A-U-6500K
Description: 2'X2' TROFFER LED MODULE, RIBBED LENS, 0.125" POLYCARB SHEET
Light Source: (168) 3000K 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: 4064.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

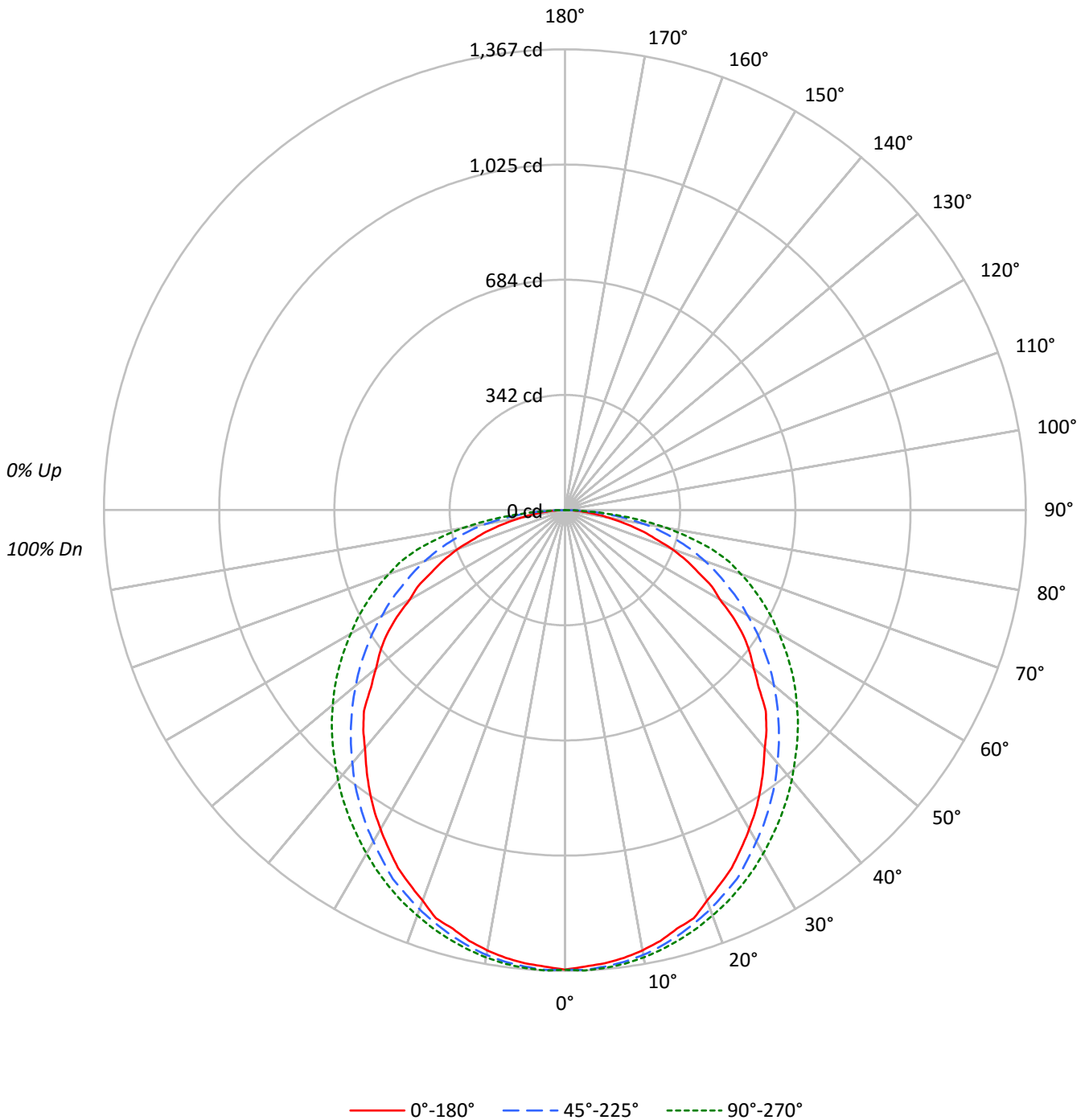
Input Watts (W): 38.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3669	3669	3669
5°	3646	3673	3683
10°	3625	3662	3683
15°	3582	3636	3674
20°	3531	3609	3665
25°	3477	3586	3662
30°	3397	3530	3657
35°	3323	3489	3661
40°	3239	3444	3676
45°	3205	3412	3709
50°	3062	3388	3762
55°	3030	3377	3842
60°	2858	3371	3947
65°	2774	3394	4124
70°	2662	3474	4377
75°	2427	3580	4712
80°	2080	3707	4762
85°	1683	3545	4085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.2
10°-20°	368.1	9.1
20°-30°	553.9	13.6
30°-40°	664.9	16.4
40°-50°	694.9	17.1
50°-60°	647.6	15.9
60°-70°	531.1	13.1
70°-80°	357.9	8.8
80°-90°	116.6	2.9
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°	1051.0	25.9
0°-40°	1715.9	42.2
0°-60°	3058.4	75.3
0°-90°	4064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1350	1354	1360	1362	1364	128
15°	1286	1294	1305	1317	1319	363
25°	1171	1179	1208	1225	1233	538
35°	1011	1025	1062	1099	1114	632
45°	842	848	897	951	974	643
55°	646	657	720	788	819	572
65°	436	455	533	611	648	433
75°	233	259	344	422	453	245
85°	54	78	115	134	132	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.5	1363.5	1363.5	1363.5	1363.5
2.5°	1355.7	1359.6	1365.5	1367.4	1367.4
5°	1349.9	1353.8	1359.6	1361.6	1363.5
7.5°	1340.2	1344.1	1351.8	1355.7	1357.7
10°	1326.5	1330.4	1340.2	1346.0	1347.9
12.5°	1309.0	1312.9	1324.6	1332.4	1334.3
15°	1285.7	1293.5	1305.2	1316.8	1318.8
17.5°	1270.1	1268.2	1283.8	1297.4	1301.3
20°	1233.2	1242.9	1260.4	1276.0	1279.9
22.5°	1202.1	1209.8	1233.2	1250.7	1258.5
25°	1170.9	1178.7	1207.9	1225.4	1233.2
27.5°	1132.0	1143.7	1170.9	1196.2	1206.0
30°	1093.1	1104.8	1135.9	1165.1	1176.8
32.5°	1054.2	1067.9	1100.9	1132.0	1145.7
35°	1011.4	1025.1	1062.0	1099.0	1114.5
37.5°	966.7	984.2	1023.1	1064.0	1081.5
40°	922.0	939.5	980.3	1027.0	1046.5
42.5°	885.0	892.8	939.5	990.0	1009.5
45°	842.2	848.1	896.7	951.1	974.5
47.5°	780.0	801.4	853.9	914.2	937.5
50°	731.4	754.7	809.2	873.3	898.6
52.5°	690.5	706.1	766.4	830.6	859.7
55°	645.8	657.4	719.7	787.8	818.9
57.5°	591.3	612.7	674.9	745.0	776.1
60°	531.0	558.2	626.3	702.2	733.3
62.5°	492.1	507.7	581.6	657.4	692.5
65°	435.7	455.2	533.0	610.8	647.7
67.5°	389.0	408.5	488.2	566.0	603.0
70°	338.4	357.9	441.5	519.3	556.3
72.5°	280.1	307.3	394.9	472.7	511.6
75°	233.4	258.7	344.3	422.1	453.2
77.5°	180.9	214.0	293.7	357.9	381.2
80°	134.2	167.3	239.2	285.9	307.3
82.5°	91.4	124.5	178.9	214.0	225.6
85°	54.5	77.8	114.8	134.2	132.3
87.5°	25.3	33.1	46.7	46.7	44.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)