

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: P308035

Luminaire Tested: **14FCZ2-44-UNV-L82765-S-CP125-W2A-U-3500K**

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: P308035
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: 14FCZ2-44-UNV-L82765-S-CP125-W2A-U-3500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET
Light Source: (168) 3500K 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: 4007.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

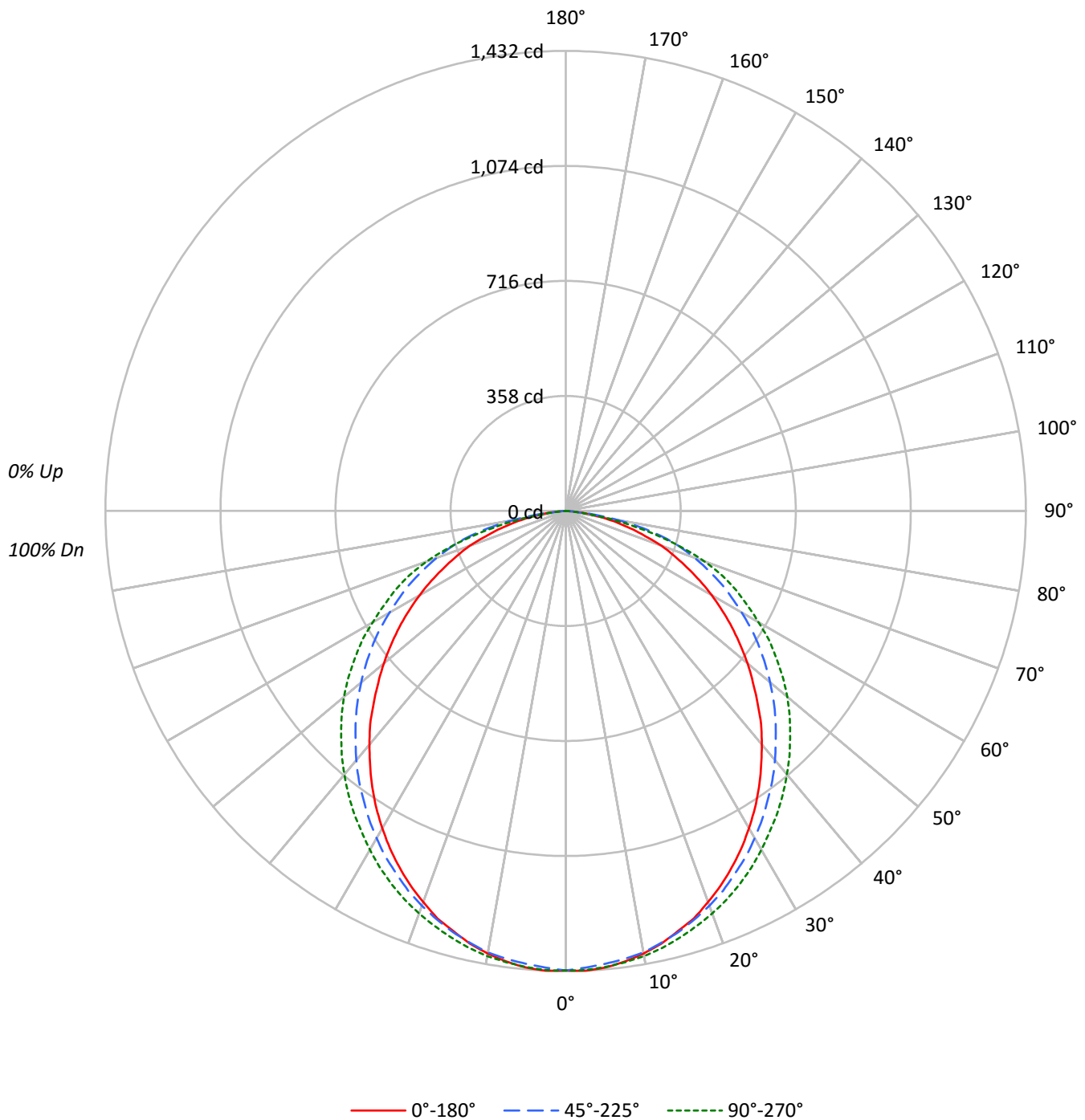
Input Watts (W): 38.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3849	3849	3849
5°	3853	3821	3848
10°	3822	3811	3844
15°	3769	3780	3830
20°	3709	3744	3818
25°	3634	3699	3805
30°	3544	3654	3784
35°	3446	3603	3772
40°	3336	3559	3762
45°	3213	3516	3758
50°	3094	3476	3768
55°	2964	3449	3756
60°	2823	3400	3732
65°	2656	3390	3732
70°	2501	3360	3626
75°	2169	3284	3098
80°	1754	2648	2063
85°	1164	920	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.4
10°-20°	384.4	9.6
20°-30°	576.6	14.4
30°-40°	687.8	17.2
40°-50°	711.0	17.7
50°-60°	649.2	16.2
60°-70°	510.9	12.7
70°-80°	297.4	7.4
80°-90°	54.8	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°	1096.0	27.4
0°-40°	1783.8	44.5
0°-60°	3144.0	78.5
0°-90°	4007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1426	1422	1414	1426	1424	135
15°	1353	1355	1357	1375	1375	382
25°	1224	1230	1246	1276	1281	563
35°	1049	1063	1097	1138	1148	656
45°	844	872	924	976	987	652
55°	632	666	735	789	801	565
65°	417	461	532	574	586	414
75°	209	258	316	310	298	222
85°	38	54	30	24	20	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.4	1430.4	1430.4	1430.4	1430.4
2.5°	1432.4	1428.4	1422.5	1432.4	1430.4
5°	1426.5	1422.5	1414.5	1426.5	1424.5
7.5°	1414.5	1410.6	1406.6	1418.5	1416.5
10°	1398.6	1396.7	1394.7	1408.6	1406.6
12.5°	1378.8	1378.8	1376.8	1392.7	1392.7
15°	1353.0	1354.9	1356.9	1374.8	1374.8
17.5°	1329.1	1327.1	1333.1	1353.0	1354.9
20°	1295.3	1299.3	1307.3	1331.1	1333.1
22.5°	1261.6	1265.5	1279.4	1303.3	1309.2
25°	1223.8	1229.8	1245.7	1275.5	1281.4
27.5°	1184.1	1192.0	1213.9	1245.7	1251.6
30°	1140.4	1152.3	1176.1	1211.9	1217.9
32.5°	1096.7	1108.6	1138.4	1174.1	1182.1
35°	1049.0	1062.9	1096.7	1138.4	1148.3
37.5°	999.3	1017.2	1056.9	1098.7	1110.6
40°	949.6	969.5	1013.2	1056.9	1070.8
42.5°	900.0	919.8	967.5	1017.2	1031.1
45°	844.4	872.2	923.8	975.5	987.4
47.5°	790.7	820.5	878.1	929.8	945.7
50°	739.1	768.9	830.4	884.1	900.0
52.5°	685.4	717.2	782.8	838.4	852.3
55°	631.8	665.5	735.1	788.7	800.6
57.5°	578.1	613.9	685.4	737.1	751.0
60°	524.5	562.2	631.8	683.4	693.4
62.5°	470.9	510.6	582.1	627.8	637.7
65°	417.2	460.9	532.4	574.2	586.1
67.5°	365.6	409.3	478.8	518.5	528.5
70°	317.9	357.6	427.1	456.9	460.9
72.5°	258.3	307.9	375.5	391.4	381.4
75°	208.6	258.3	315.9	309.9	298.0
77.5°	158.9	208.6	246.4	226.5	210.6
80°	113.2	162.9	170.9	141.1	133.1
82.5°	73.5	113.2	95.4	73.5	59.6
85°	37.7	53.6	29.8	23.8	19.9
87.5°	11.9	7.9	4.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)