

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: P307948

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CP125-W2A-U-5000K**

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: P307948
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-5000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET
Light Source: (168) 5000K 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: 3425.0 lumens
Efficiency: N/A
Efficacy: 113.4 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

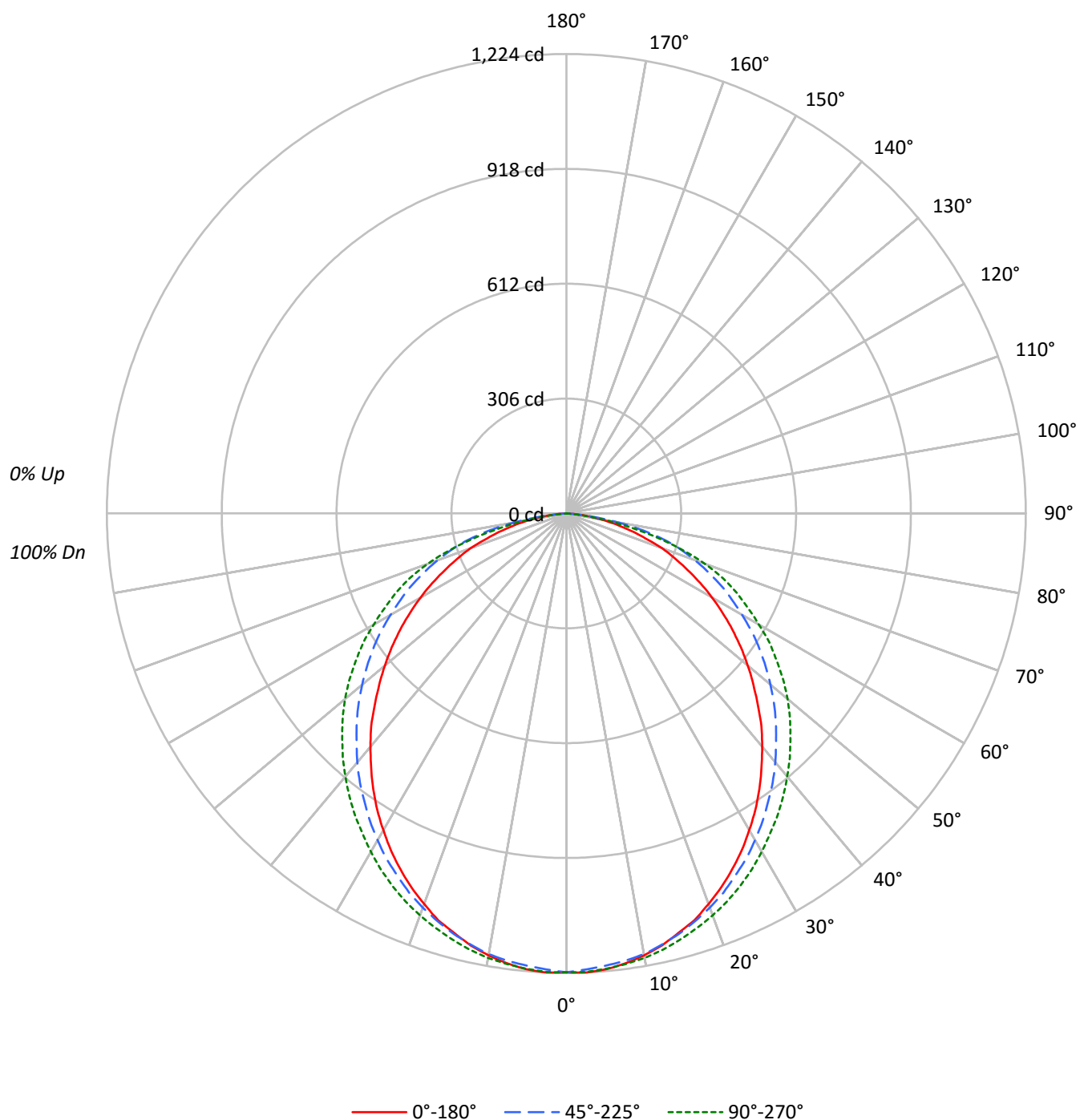
Input Watts (W): 30.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3290	3290	3290
5°	3294	3266	3289
10°	3267	3257	3285
15°	3222	3231	3274
20°	3171	3200	3263
25°	3106	3161	3252
30°	3029	3124	3235
35°	2945	3079	3224
40°	2851	3042	3215
45°	2747	3005	3212
50°	2645	2972	3221
55°	2533	2948	3211
60°	2413	2906	3190
65°	2271	2898	3190
70°	2138	2873	3100
75°	1854	2807	2648
80°	1500	2263	1764
85°	997	787	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	3.4
10°-20°	328.5	9.6
20°-30°	492.8	14.4
30°-40°	587.9	17.2
40°-50°	607.7	17.7
50°-60°	554.9	16.2
60°-70°	436.7	12.7
70°-80°	254.2	7.4
80°-90°	46.8	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°	936.8	27.4
0°-40°	1524.7	44.5
0°-60°	2687.3	78.5
0°-90°	3425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1219	1216	1209	1219	1218	116
15°	1156	1158	1160	1175	1175	326
25°	1046	1051	1065	1090	1095	482
35°	897	908	937	973	982	560
45°	722	746	790	834	844	557
55°	540	569	628	674	684	483
65°	357	394	455	491	501	354
75°	178	221	270	265	255	190
85°	32	46	26	20	17	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1222.7	1222.7	1222.7	1222.7	1222.7
2.5°	1224.4	1221.0	1215.9	1224.4	1222.7
5°	1219.3	1215.9	1209.1	1219.3	1217.6
7.5°	1209.1	1205.7	1202.3	1212.5	1210.8
10°	1195.5	1193.8	1192.1	1204.0	1202.3
12.5°	1178.5	1178.5	1176.8	1190.4	1190.4
15°	1156.4	1158.1	1159.8	1175.1	1175.1
17.5°	1136.1	1134.4	1139.5	1156.4	1158.1
20°	1107.2	1110.6	1117.4	1137.8	1139.5
22.5°	1078.3	1081.7	1093.6	1114.0	1119.1
25°	1046.1	1051.2	1064.7	1090.2	1095.3
27.5°	1012.1	1018.9	1037.6	1064.7	1069.8
30°	974.7	984.9	1005.3	1035.9	1041.0
32.5°	937.4	947.6	973.0	1003.6	1010.4
35°	896.6	908.5	937.4	973.0	981.5
37.5°	854.2	869.5	903.4	939.1	949.3
40°	811.7	828.7	866.1	903.4	915.3
42.5°	769.3	786.2	827.0	869.5	881.3
45°	721.7	745.5	789.6	833.8	844.0
47.5°	675.9	701.3	750.6	794.7	808.3
50°	631.7	657.2	709.8	755.7	769.3
52.5°	585.9	613.0	669.1	716.6	728.5
55°	540.0	568.9	628.3	674.2	684.4
57.5°	494.2	524.7	585.9	630.0	641.9
60°	448.3	480.6	540.0	584.2	592.7
62.5°	402.5	436.4	497.6	536.6	545.1
65°	356.6	394.0	455.1	490.8	501.0
67.5°	312.5	349.8	409.3	443.2	451.7
70°	271.7	305.7	365.1	390.6	394.0
72.5°	220.8	263.2	321.0	334.5	326.0
75°	178.3	220.8	270.0	264.9	254.7
77.5°	135.9	178.3	210.6	193.6	180.0
80°	96.8	139.2	146.0	120.6	113.8
82.5°	62.8	96.8	81.5	62.8	50.9
85°	32.3	45.9	25.5	20.4	17.0
87.5°	10.2	6.8	3.4	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)