

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: P307933

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CA08-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: P307933
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-CA08-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.08" ACRYLIC 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: 3558.0 lumens
Efficiency: N/A
Efficacy: 115.5 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

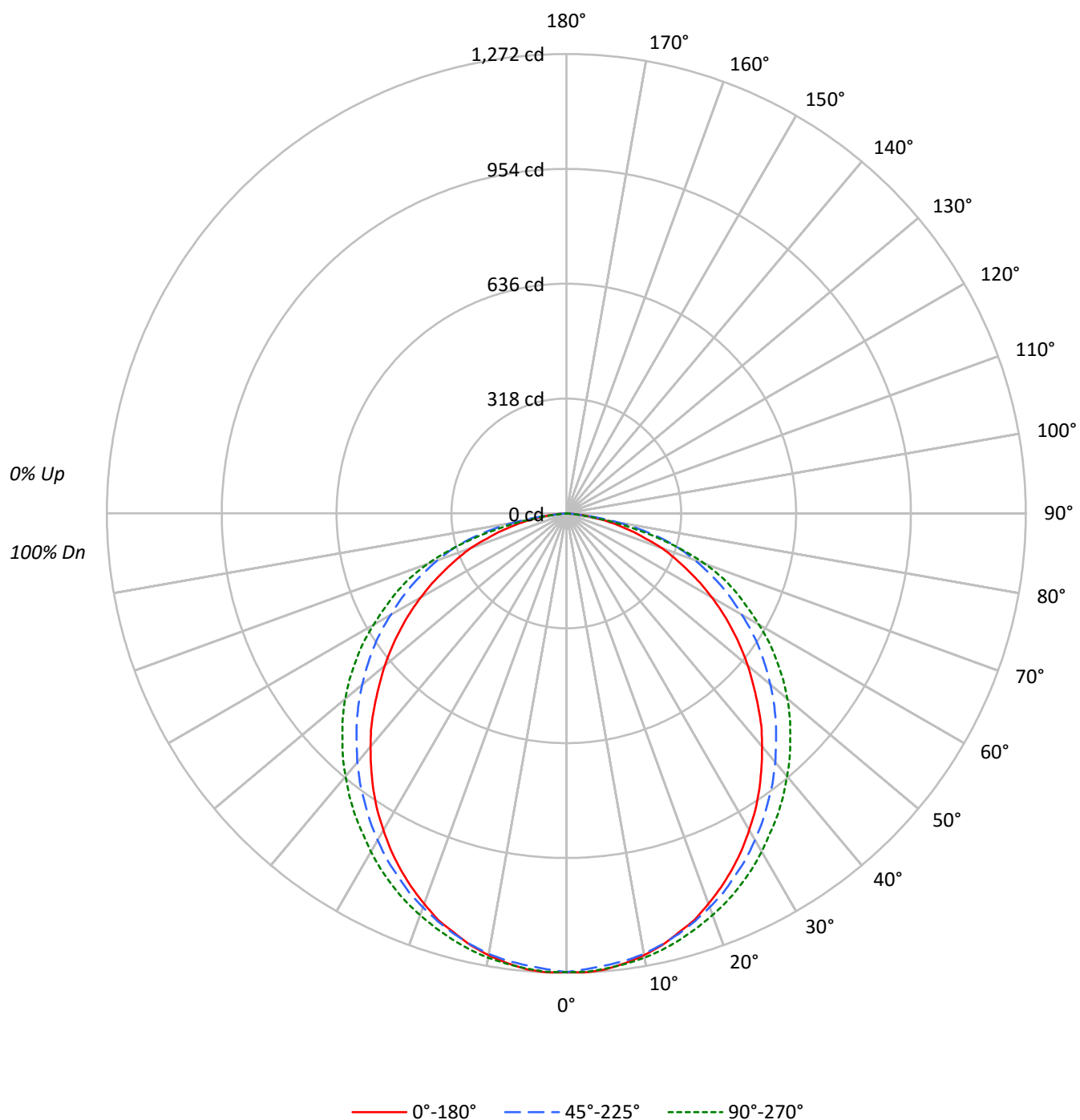
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3418	3418	3418
5°	3421	3393	3417
10°	3393	3384	3413
15°	3347	3357	3401
20°	3294	3324	3390
25°	3227	3284	3378
30°	3146	3245	3360
35°	3060	3199	3349
40°	2962	3160	3340
45°	2853	3122	3337
50°	2747	3087	3345
55°	2632	3062	3335
60°	2506	3019	3314
65°	2359	3011	3314
70°	2221	2984	3220
75°	1926	2916	2751
80°	1559	2351	1832
85°	1034	818	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	3.4
10°-20°	341.3	9.6
20°-30°	512.0	14.4
30°-40°	610.7	17.2
40°-50°	631.3	17.7
50°-60°	576.4	16.2
60°-70°	453.6	12.7
70°-80°	264.0	7.4
80°-90°	48.7	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°	973.2	27.4
0°-40°	1583.9	44.5
0°-60°	2791.7	78.5
0°-90°	3558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1267	1263	1256	1267	1265	120
15°	1201	1203	1205	1221	1221	339
25°	1087	1092	1106	1132	1138	500
35°	931	944	974	1011	1020	582
45°	750	774	820	866	877	579
55°	561	591	653	700	711	502
65°	370	409	473	510	520	368
75°	185	229	280	275	265	197
85°	34	48	26	21	18	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.1	1270.1	1270.1	1270.1	1270.1
2.5°	1271.9	1268.4	1263.1	1271.9	1270.1
5°	1266.6	1263.1	1256.0	1266.6	1264.9
7.5°	1256.0	1252.5	1249.0	1259.6	1257.8
10°	1241.9	1240.2	1238.4	1250.7	1249.0
12.5°	1224.3	1224.3	1222.5	1236.6	1236.6
15°	1201.3	1203.1	1204.9	1220.8	1220.8
17.5°	1180.2	1178.4	1183.7	1201.3	1203.1
20°	1150.2	1153.7	1160.8	1181.9	1183.7
22.5°	1120.2	1123.7	1136.1	1157.2	1162.5
25°	1086.7	1092.0	1106.1	1132.5	1137.8
27.5°	1051.4	1058.5	1077.9	1106.1	1111.4
30°	1012.6	1023.2	1044.3	1076.1	1081.4
32.5°	973.8	984.4	1010.8	1042.6	1049.6
35°	931.4	943.8	973.8	1010.8	1019.6
37.5°	887.3	903.2	938.5	975.5	986.1
40°	843.2	860.9	899.7	938.5	950.8
42.5°	799.1	816.8	859.1	903.2	915.6
45°	749.7	774.4	820.3	866.2	876.8
47.5°	702.1	728.6	779.7	825.6	839.7
50°	656.2	682.7	737.4	785.0	799.1
52.5°	608.6	636.8	695.1	744.4	756.8
55°	561.0	591.0	652.7	700.3	710.9
57.5°	513.4	545.1	608.6	654.5	666.8
60°	465.7	499.2	561.0	606.8	615.7
62.5°	418.1	453.4	516.9	557.5	566.3
65°	370.5	409.3	472.8	509.8	520.4
67.5°	324.6	363.4	425.1	460.4	469.2
70°	282.3	317.5	379.3	405.7	409.3
72.5°	229.3	273.4	333.4	347.5	338.7
75°	185.2	229.3	280.5	275.2	264.6
77.5°	141.1	185.2	218.7	201.1	187.0
80°	100.6	144.7	151.7	125.3	118.2
82.5°	65.3	100.6	84.7	65.3	52.9
85°	33.5	47.6	26.5	21.2	17.6
87.5°	10.6	7.1	3.5	3.5	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)