

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: P307947

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CP125-W2A-U-4500K**

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: P307947
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-4500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET
Light Source: (168) 4500K 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: 3379.0 lumens
Efficiency: N/A
Efficacy: 112.3 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

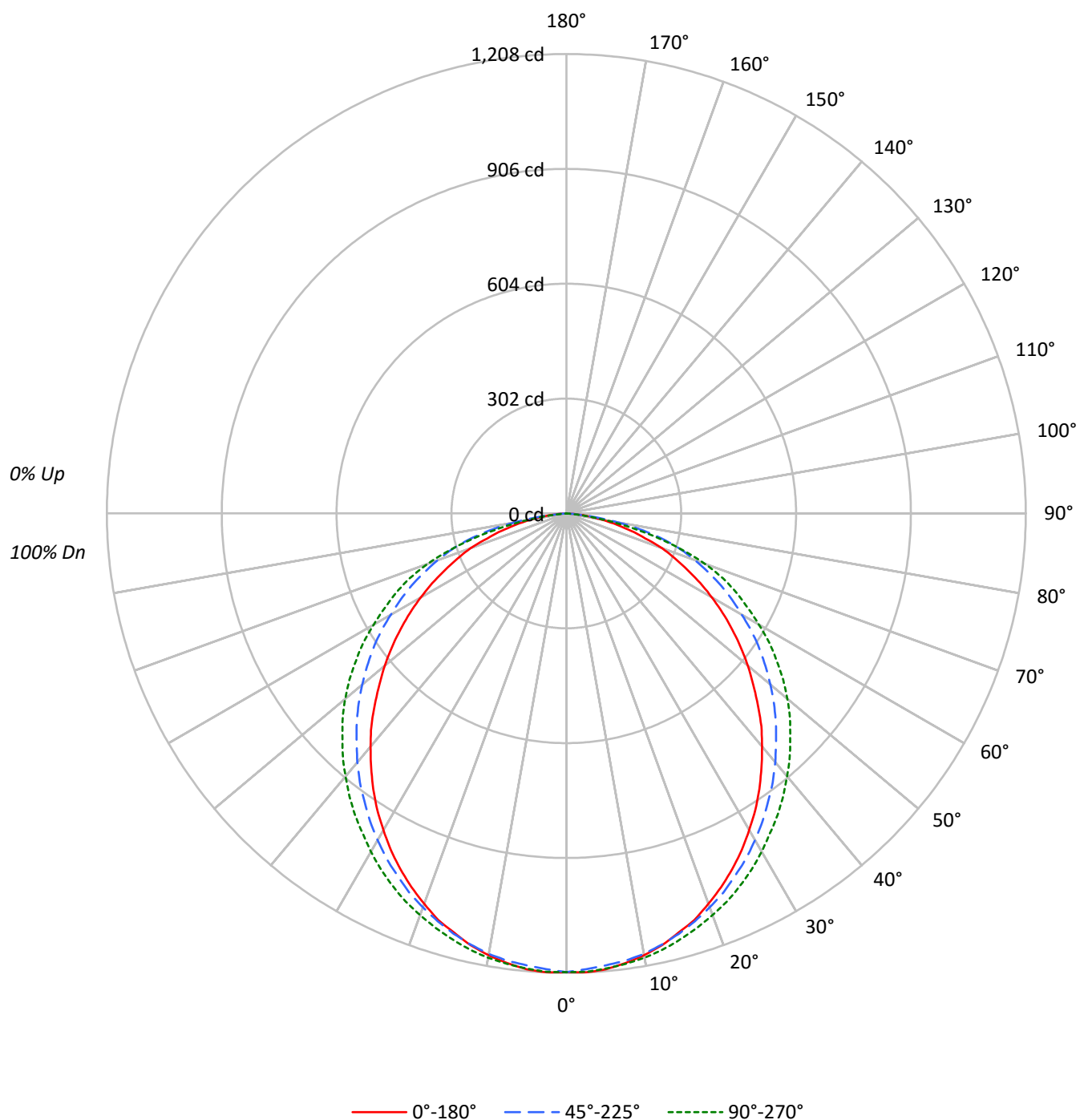
Input Watts (W): 30.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307947

CATALOG NUMBER: 14FCZ2-35-UNV-L82765-S-CP125-W2A-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P307947

CATALOG NUMBER: 14FCZ2-35-UNV-L82765-S-CP125-W2A-U-4500K

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°	3246	3246	3246
5°	3249	3222	3245
10°	3223	3214	3241
15°	3178	3188	3230
20°	3128	3157	3219
25°	3064	3119	3208
30°	2988	3082	3191
35°	2906	3038	3181
40°	2813	3001	3172
45°	2710	2965	3169
50°	2609	2932	3177
55°	2500	2908	3168
60°	2380	2868	3147
65°	2240	2859	3147
70°	2109	2834	3058
75°	1829	2770	2613
80°	1480	2233	1739
85°	982	775	519



TEST NUMBER: P307947

CATALOG NUMBER: 14FCZ2-35-UNV-L82765-S-CP125-W2A-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.4
10°-20°	324.1	9.6
20°-30°	486.2	14.4
30°-40°	580.0	17.2
40°-50°	599.6	17.7
50°-60°	547.4	16.2
60°-70°	430.8	12.7
70°-80°	250.8	7.4
80°-90°	46.2	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°	924.2	27.4
0°-40°	1504.2	44.5
0°-60°	2651.2	78.5
0°-90°	3379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1203	1200	1193	1203	1201	114
15°	1141	1143	1144	1159	1159	322
25°	1032	1037	1050	1076	1081	475
35°	885	896	925	960	968	553
45°	712	736	779	823	833	550
55°	533	561	620	665	675	476
65°	352	389	449	484	494	349
75°	176	218	266	261	251	187
85°	32	45	25	20	17	41
90°	0	0	0	0	0	



TEST NUMBER: P307947

CATALOG NUMBER: 14FCZ2-35-UNV-L82765-S-CP125-W2A-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.2	1206.2	1206.2	1206.2	1206.2
2.5°	1207.9	1204.6	1199.5	1207.9	1206.2
5°	1202.9	1199.5	1192.8	1202.9	1201.2
7.5°	1192.8	1189.5	1186.1	1196.2	1194.5
10°	1179.4	1177.8	1176.1	1187.8	1186.1
12.5°	1162.7	1162.7	1161.0	1174.4	1174.4
15°	1140.9	1142.6	1144.3	1159.3	1159.3
17.5°	1120.8	1119.1	1124.2	1140.9	1142.6
20°	1092.3	1095.7	1102.4	1122.5	1124.2
22.5°	1063.8	1067.2	1078.9	1099.0	1104.1
25°	1032.0	1037.0	1050.4	1075.6	1080.6
27.5°	998.5	1005.2	1023.6	1050.4	1055.5
30°	961.6	971.7	991.8	1022.0	1027.0
32.5°	924.8	934.8	960.0	990.1	996.8
35°	884.6	896.3	924.8	960.0	968.3
37.5°	842.7	857.8	891.3	926.5	936.5
40°	800.8	817.6	854.4	891.3	903.0
42.5°	758.9	775.7	815.9	857.8	869.5
45°	712.0	735.5	779.0	822.6	832.6
47.5°	666.8	691.9	740.5	784.1	797.5
50°	623.2	648.4	700.3	745.5	758.9
52.5°	578.0	604.8	660.1	707.0	718.7
55°	532.8	561.2	619.9	665.1	675.2
57.5°	487.5	517.7	578.0	621.6	633.3
60°	442.3	474.1	532.8	576.3	584.7
62.5°	397.1	430.6	490.9	529.4	537.8
65°	351.8	388.7	449.0	484.2	494.2
67.5°	308.3	345.1	403.8	437.3	445.6
70°	268.1	301.6	360.2	385.3	388.7
72.5°	217.8	259.7	316.6	330.0	321.7
75°	175.9	217.8	266.4	261.4	251.3
77.5°	134.0	175.9	207.7	191.0	177.6
80°	95.5	137.4	144.1	118.9	112.2
82.5°	62.0	95.5	80.4	62.0	50.3
85°	31.8	45.2	25.1	20.1	16.8
87.5°	10.1	6.7	3.4	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)