

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: P307949

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CP125-W2A-U-5500K**

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: P307949
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-5500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET
Light Source: (168) 5500K 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: 3459.0 lumens
Efficiency: N/A
Efficacy: 114.2 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

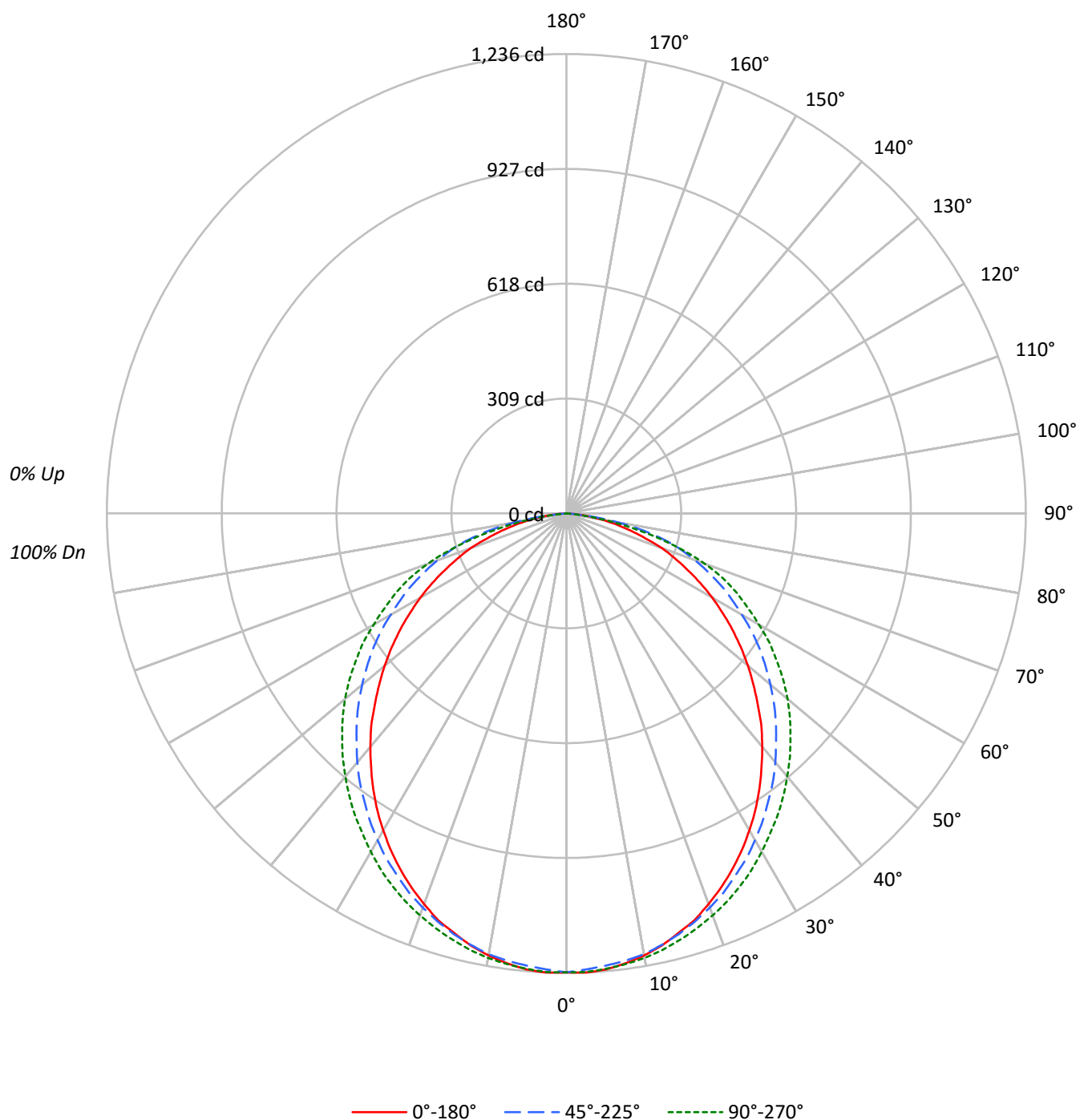
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3323	3323	3323
5°	3326	3299	3322
10°	3299	3290	3318
15°	3254	3263	3306
20°	3202	3232	3296
25°	3137	3193	3284
30°	3059	3155	3267
35°	2975	3110	3256
40°	2880	3073	3247
45°	2774	3035	3244
50°	2671	3001	3252
55°	2559	2977	3242
60°	2437	2935	3221
65°	2294	2926	3221
70°	2159	2901	3131
75°	1873	2835	2675
80°	1516	2286	1781
85°	1007	794	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	3.4
10°-20°	331.8	9.6
20°-30°	497.7	14.4
30°-40°	593.7	17.2
40°-50°	613.8	17.7
50°-60°	560.4	16.2
60°-70°	441.0	12.7
70°-80°	256.7	7.4
80°-90°	47.3	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°	946.1	27.4
0°-40°	1539.8	44.5
0°-60°	2714.0	78.5
0°-90°	3459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1231	1228	1221	1231	1230	117
15°	1168	1170	1171	1187	1187	330
25°	1056	1062	1075	1101	1106	486
35°	906	918	947	983	991	566
45°	729	753	798	842	852	563
55°	545	574	635	681	691	488
65°	360	398	460	496	506	358
75°	180	223	273	268	257	191
85°	33	46	26	21	17	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.8	1234.8	1234.8	1234.8	1234.8
2.5°	1236.5	1233.1	1227.9	1236.5	1234.8
5°	1231.4	1227.9	1221.1	1231.4	1229.7
7.5°	1221.1	1217.7	1214.2	1224.5	1222.8
10°	1207.4	1205.7	1203.9	1215.9	1214.2
12.5°	1190.2	1190.2	1188.5	1202.2	1202.2
15°	1167.9	1169.6	1171.4	1186.8	1186.8
17.5°	1147.3	1145.6	1150.8	1167.9	1169.6
20°	1118.2	1121.6	1128.5	1149.1	1150.8
22.5°	1089.0	1092.5	1104.5	1125.0	1130.2
25°	1056.4	1061.6	1075.3	1101.0	1106.2
27.5°	1022.1	1029.0	1047.9	1075.3	1080.5
30°	984.4	994.7	1015.3	1046.2	1051.3
32.5°	946.7	957.0	982.7	1013.6	1020.4
35°	905.5	917.5	946.7	982.7	991.3
37.5°	862.6	878.1	912.4	948.4	958.7
40°	819.8	836.9	874.7	912.4	924.4
42.5°	776.9	794.0	835.2	878.1	890.1
45°	728.9	752.9	797.5	842.1	852.4
47.5°	682.6	708.3	758.0	802.6	816.3
50°	638.0	663.7	716.9	763.2	776.9
52.5°	591.7	619.1	675.7	723.7	735.7
55°	545.4	574.5	634.6	680.9	691.1
57.5°	499.1	529.9	591.7	636.3	648.3
60°	452.8	485.3	545.4	590.0	598.5
62.5°	406.5	440.8	502.5	541.9	550.5
65°	360.2	397.9	459.6	495.6	505.9
67.5°	315.6	353.3	413.3	447.6	456.2
70°	274.4	308.7	368.7	394.5	397.9
72.5°	223.0	265.8	324.1	337.9	329.3
75°	180.1	223.0	272.7	267.5	257.3
77.5°	137.2	180.1	212.7	195.5	181.8
80°	97.8	140.6	147.5	121.8	114.9
82.5°	63.5	97.8	82.3	63.5	51.5
85°	32.6	46.3	25.7	20.6	17.2
87.5°	10.3	6.9	3.4	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)