

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: P308262

Luminaire Tested: **22FCZ2-39HE-UNV-L82765-HRP-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: P308262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-22)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22FCZ2-39HE-UNV-L82765-HRP-CP125-W2A-U-4500K
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" POLYCARB SHEET
Light Source: (168) 3000K 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: 2735.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

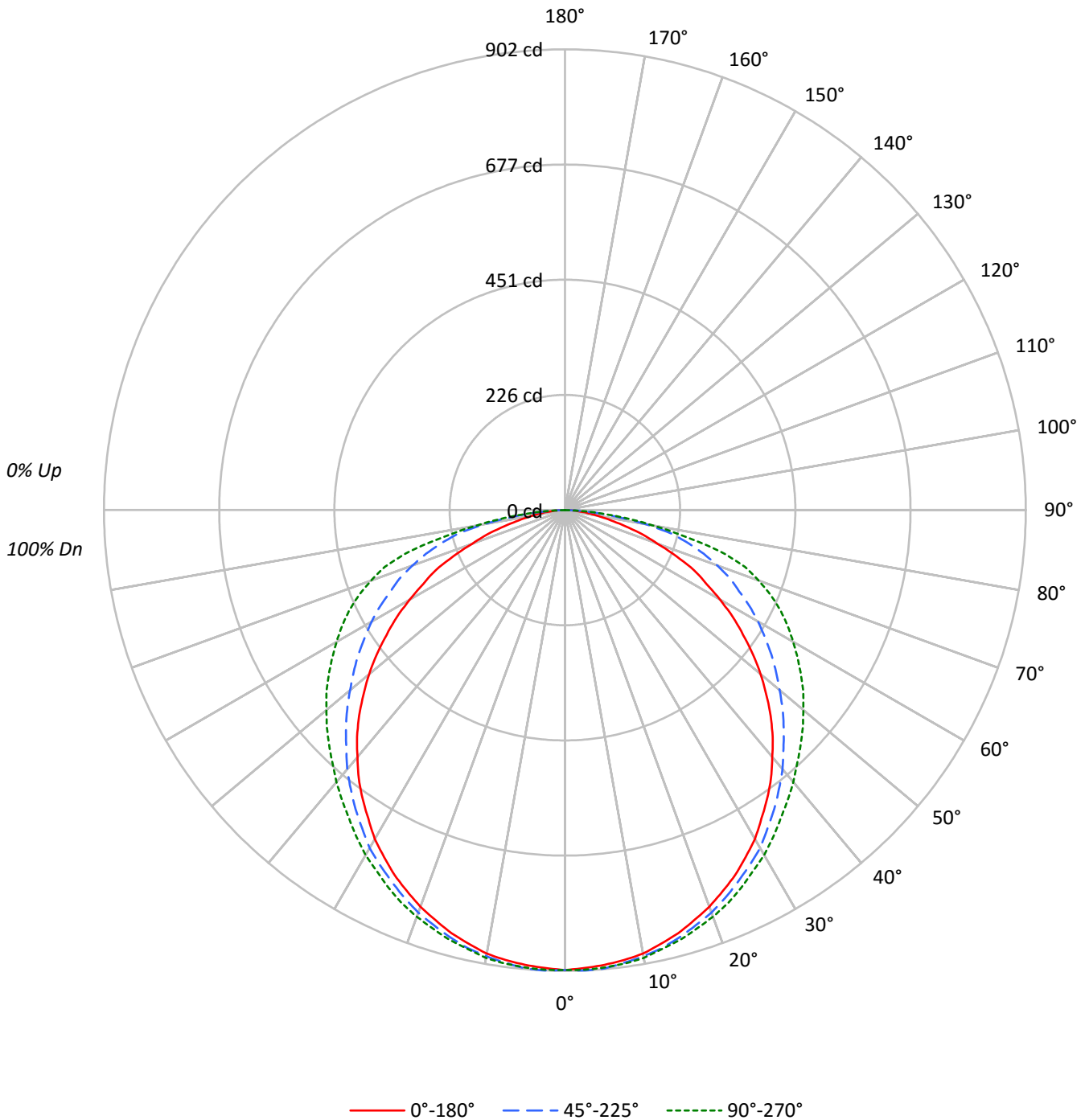
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2423	2423	2423
5°	2414	2433	2428
10°	2409	2423	2433
15°	2389	2413	2427
20°	2367	2401	2426
25°	2341	2382	2423
30°	2311	2375	2423
35°	2267	2347	2420
40°	2218	2327	2442
45°	2167	2305	2482
50°	2094	2297	2550
55°	1999	2315	2647
60°	1885	2349	2777
65°	1780	2395	2966
70°	1520	2498	3176
75°	1274	2601	3301
80°	1043	2514	2754
85°	905	1865	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	3.1
10°-20°	244.2	8.9
20°-30°	370.0	13.5
30°-40°	446.8	16.3
40°-50°	469.5	17.2
50°-60°	441.7	16.2
60°-70°	368.3	13.5
70°-80°	244.1	8.9
80°-90°	65.0	2.4
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°	699.5	25.6
0°-40°	1146.4	41.9
0°-60°	2057.6	75.2
0°-90°	2735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	894	895	901	901	899	85
15°	858	861	866	870	871	242
25°	788	794	802	813	816	363
35°	690	697	714	730	737	432
45°	569	578	606	637	652	439
55°	426	445	493	544	564	381
65°	280	304	376	438	466	272
75°	122	171	250	302	318	133
85°	29	45	60	66	66	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	900.6	900.6	900.6	900.6	900.6
2.5°	897.2	898.9	902.3	902.3	900.6
5°	893.7	895.4	900.6	900.6	898.9
7.5°	888.5	890.3	893.7	897.2	895.4
10°	881.6	883.4	886.8	890.3	890.3
12.5°	869.5	871.3	878.2	879.9	879.9
15°	857.5	860.9	866.1	869.5	871.3
17.5°	841.9	845.4	852.3	859.2	859.2
20°	826.4	829.9	838.5	845.4	847.1
22.5°	807.4	812.6	821.2	829.9	833.3
25°	788.5	793.6	802.3	812.6	816.1
27.5°	766.0	771.2	783.3	795.4	797.1
30°	743.6	748.8	764.3	774.7	779.8
32.5°	716.0	722.9	738.4	754.0	759.1
35°	690.1	697.0	714.3	729.8	736.7
37.5°	662.5	669.4	688.4	707.4	716.0
40°	631.5	640.1	662.5	683.2	695.3
42.5°	602.1	610.8	633.2	660.8	672.9
45°	569.3	578.0	605.6	636.6	652.2
47.5°	534.8	545.2	578.0	615.9	631.5
50°	500.3	512.4	548.6	591.8	609.0
52.5°	464.1	479.6	521.0	567.6	588.3
55°	426.1	445.1	493.4	543.5	564.2
57.5°	389.9	407.2	464.1	517.6	540.0
60°	350.2	372.7	436.5	491.7	515.9
62.5°	312.3	336.4	407.2	465.8	491.7
65°	279.5	303.7	376.1	438.2	465.8
67.5°	236.4	269.1	350.2	408.9	436.5
70°	193.2	238.1	317.5	377.8	403.7
72.5°	160.5	203.6	284.7	345.1	369.2
75°	122.5	170.8	250.2	301.9	317.5
77.5°	91.4	141.5	213.9	239.8	241.5
80°	67.3	108.7	162.2	170.8	177.7
82.5°	46.6	75.9	105.2	115.6	119.0
85°	29.3	44.9	60.4	65.6	65.6
87.5°	15.5	17.3	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)