

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: P307879

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-CP250-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: P307879
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: 14FCZ2-25-UNV-L82765-S-CP250-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.250" POLYCARB 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: 2298.0 lumens
Efficiency: N/A
Efficacy: 112.1 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

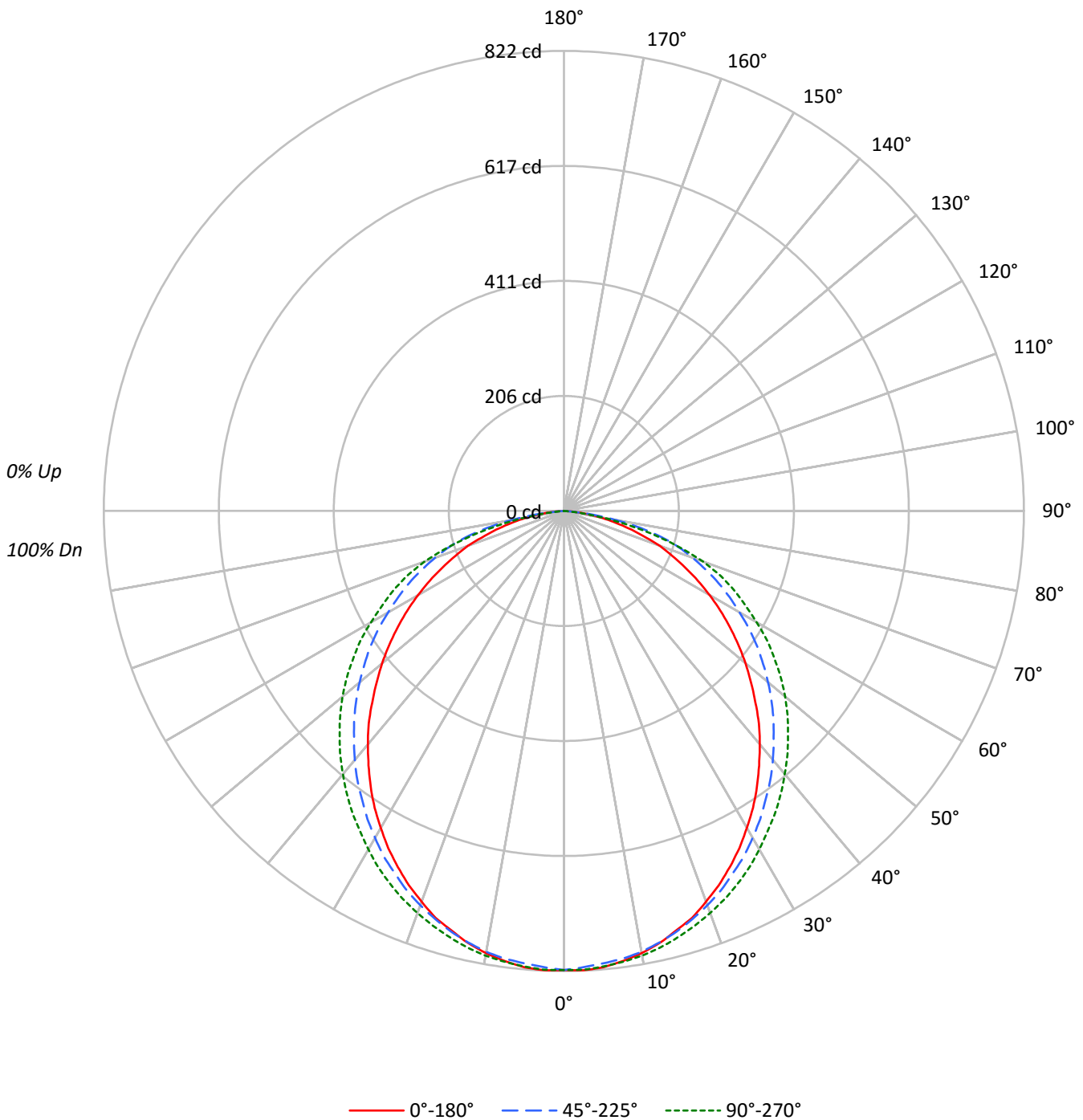
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2207	2207	2207
5°	2210	2191	2207
10°	2192	2185	2204
15°	2162	2168	2196
20°	2127	2147	2189
25°	2084	2121	2182
30°	2032	2096	2170
35°	1976	2066	2164
40°	1913	2041	2157
45°	1843	2016	2155
50°	1774	1994	2161
55°	1700	1978	2154
60°	1619	1950	2140
65°	1524	1945	2140
70°	1434	1928	2079
75°	1243	1884	1777
80°	1006	1519	1182
85°	667	528	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	3.4
10°-20°	220.4	9.6
20°-30°	330.7	14.4
30°-40°	394.4	17.2
40°-50°	407.8	17.7
50°-60°	372.3	16.2
60°-70°	293.0	12.7
70°-80°	170.5	7.4
80°-90°	31.4	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°	628.6	27.4
0°-40°	1023.0	44.5
0°-60°	1803.1	78.5
0°-90°	2298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2298.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	818	816	811	818	817	78
15°	776	777	778	788	788	219
25°	702	705	714	732	735	323
35°	602	610	629	653	659	376
45°	484	500	530	559	566	374
55°	362	382	422	452	459	324
65°	239	264	305	329	336	238
75°	120	148	181	178	171	127
85°	22	31	17	14	11	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.3	820.3	820.3	820.3	820.3
2.5°	821.5	819.2	815.8	821.5	820.3
5°	818.1	815.8	811.2	818.1	816.9
7.5°	811.2	809.0	806.7	813.5	812.4
10°	802.1	801.0	799.8	807.8	806.7
12.5°	790.7	790.7	789.6	798.7	798.7
15°	775.9	777.1	778.2	788.4	788.4
17.5°	762.2	761.1	764.5	775.9	777.1
20°	742.9	745.1	749.7	763.4	764.5
22.5°	723.5	725.8	733.8	747.4	750.8
25°	701.9	705.3	714.4	731.5	734.9
27.5°	679.1	683.6	696.2	714.4	717.8
30°	654.0	660.8	674.5	695.0	698.4
32.5°	628.9	635.8	652.9	673.4	677.9
35°	601.6	609.6	628.9	652.9	658.6
37.5°	573.1	583.4	606.1	630.1	636.9
40°	544.6	556.0	581.1	606.1	614.1
42.5°	516.1	527.5	554.9	583.4	591.3
45°	484.2	500.2	529.8	559.4	566.3
47.5°	453.5	470.6	503.6	533.2	542.3
50°	423.8	440.9	476.3	507.0	516.1
52.5°	393.1	411.3	448.9	480.8	488.8
55°	362.3	381.7	421.6	452.3	459.2
57.5°	331.6	352.1	393.1	422.7	430.7
60°	300.8	322.4	362.3	391.9	397.6
62.5°	270.0	292.8	333.8	360.0	365.7
65°	239.3	264.3	305.4	329.3	336.1
67.5°	209.6	234.7	274.6	297.4	303.1
70°	182.3	205.1	245.0	262.1	264.3
72.5°	148.1	176.6	215.3	224.5	218.8
75°	119.6	148.1	181.2	177.7	170.9
77.5°	91.1	119.6	141.3	129.9	120.8
80°	64.9	93.4	98.0	80.9	76.3
82.5°	42.2	64.9	54.7	42.2	34.2
85°	21.6	30.8	17.1	13.7	11.4
87.5°	6.8	4.6	2.3	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)