

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: METALUX

Report Number: P274774

Luminaire Tested: **22CZ2-44-RDP-UNV-L950-CD1-U**

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: P274774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44-RDP-UNV-L950-CD1-U
Description: 2'X2' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (98) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2685.0 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

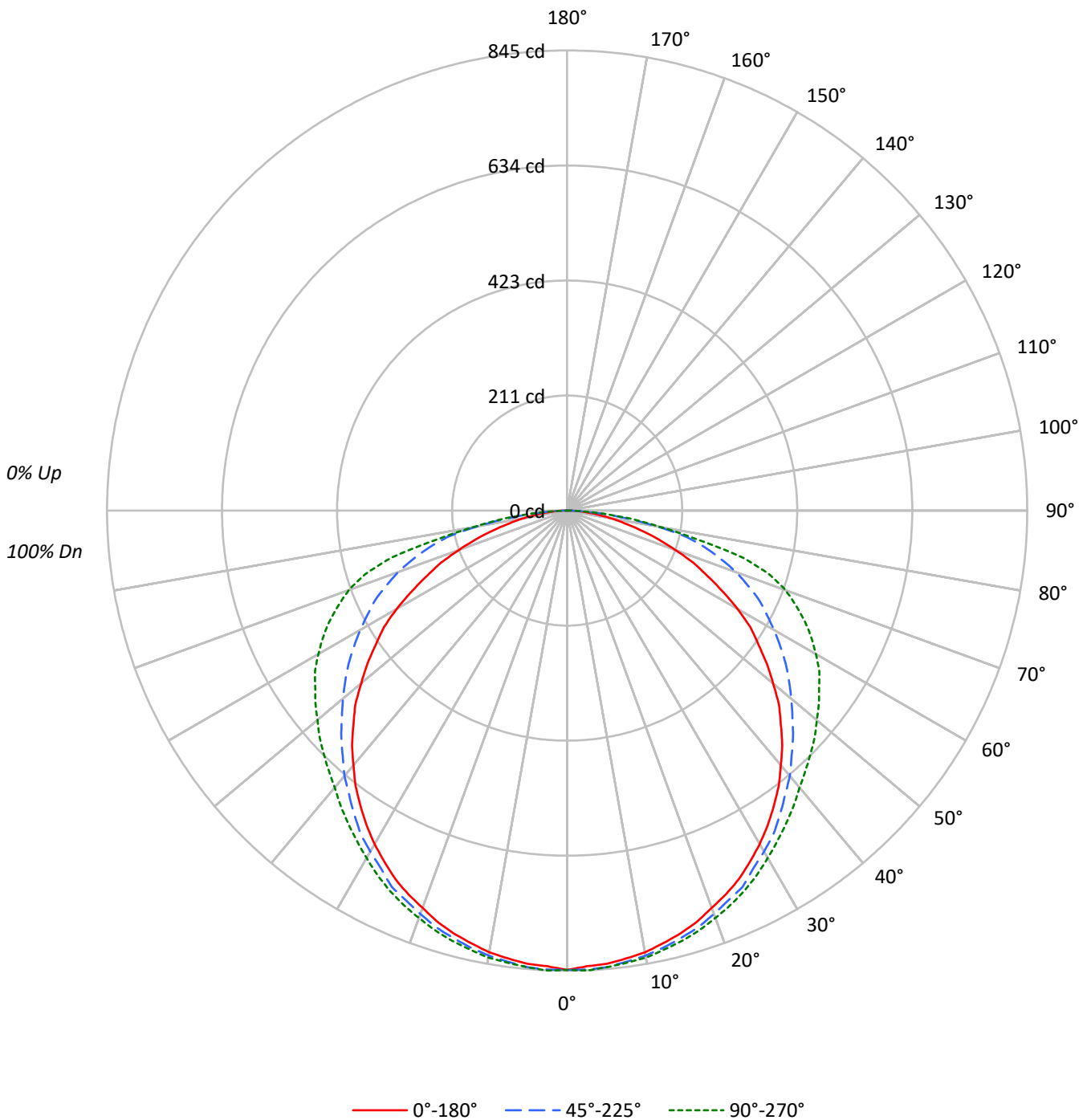
Input Watts (W): 42.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2270	2270	2270
5°	2257	2273	2273
10°	2251	2267	2278
15°	2240	2262	2278
20°	2223	2257	2279
25°	2217	2264	2287
30°	2197	2246	2289
35°	2174	2238	2303
40°	2144	2234	2331
45°	2112	2232	2406
50°	2067	2249	2506
55°	2011	2298	2650
60°	1946	2360	2838
65°	1811	2478	3068
70°	1662	2596	3356
75°	1458	2731	3471
80°	1255	2602	2724
85°	1099	1890	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.0
10°-20°	229.1	8.5
20°-30°	349.5	13.0
30°-40°	426.7	15.9
40°-50°	456.3	17.0
50°-60°	440.4	16.4
60°-70°	379.1	14.1
70°-80°	256.5	9.6
80°-90°	67.7	2.5
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°	658.3	24.5
0°-40°	1085.0	40.4
0°-60°	1981.7	73.8
0°-90°	2685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	836	838	841	841	841	79
15°	804	806	812	816	818	227
25°	747	751	762	766	770	344
35°	662	668	681	695	701	414
45°	555	565	587	616	632	428
55°	429	442	490	539	565	384
65°	284	312	389	450	482	283
75°	140	186	263	316	334	150
85°	36	49	61	63	67	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	843.4	843.4	843.4	843.4	843.4
2.5°	837.5	839.5	843.4	843.4	845.4
5°	835.5	837.5	841.4	841.4	841.4
7.5°	829.6	831.6	835.5	837.5	837.5
10°	823.7	825.6	829.6	831.6	833.5
12.5°	813.8	815.8	821.7	825.6	825.6
15°	803.9	805.9	811.8	815.8	817.7
17.5°	792.1	796.0	801.9	805.9	807.9
20°	776.2	780.2	788.1	794.0	796.0
22.5°	762.4	766.4	774.3	780.2	784.1
25°	746.6	750.6	762.4	766.4	770.3
27.5°	726.9	730.8	740.7	748.6	754.5
30°	707.1	711.1	722.9	732.8	736.7
32.5°	685.4	691.3	705.1	713.0	719.0
35°	661.7	667.6	681.4	695.3	701.2
37.5°	638.0	643.9	657.7	675.5	683.4
40°	610.3	618.2	636.0	659.7	663.7
42.5°	584.7	594.5	610.3	638.0	647.9
45°	555.0	564.9	586.6	616.3	632.1
47.5°	527.4	537.3	561.0	596.5	616.3
50°	493.8	507.6	537.3	578.7	598.5
52.5°	462.2	474.0	513.5	559.0	582.7
55°	428.6	442.4	489.8	539.2	564.9
57.5°	399.0	410.8	464.2	519.5	549.1
60°	361.5	377.3	438.5	497.7	527.4
62.5°	322.0	345.7	412.8	474.0	505.6
65°	284.4	312.1	389.1	450.3	481.9
67.5°	250.8	280.5	359.5	424.7	454.3
70°	211.3	248.9	329.9	393.1	426.6
72.5°	175.8	217.3	296.3	359.5	389.1
75°	140.2	185.7	262.7	316.0	333.8
77.5°	108.6	152.1	225.2	241.0	242.9
80°	81.0	120.5	167.9	169.9	175.8
82.5°	55.3	84.9	108.6	118.5	120.5
85°	35.6	49.4	61.2	63.2	67.2
87.5°	15.8	17.8	21.7	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)