

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: P274718

Luminaire Tested: **14CZ2-44-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: P274718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-RDP-UNV-L950-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (112) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

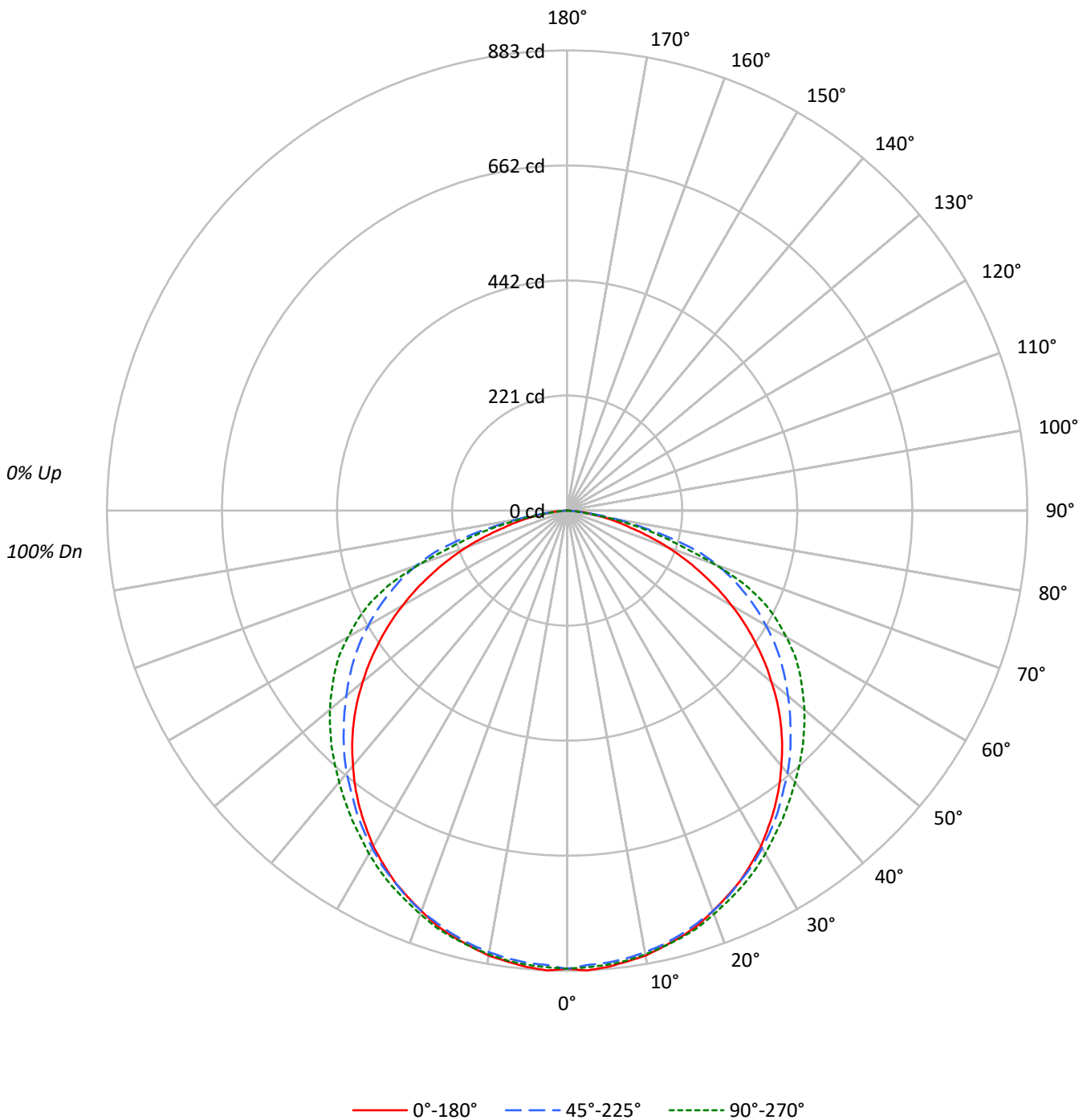
Lumens per Lamp: N/A
Luminaire Lumens: 2625.0 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.3
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				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	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2366	2366	2366
5°	2375	2353	2364
10°	2369	2352	2363
15°	2358	2347	2364
20°	2342	2342	2359
25°	2330	2330	2361
30°	2312	2324	2362
35°	2282	2316	2370
40°	2246	2311	2390
45°	2207	2308	2433
50°	2145	2316	2488
55°	2067	2346	2557
60°	1963	2371	2614
65°	1814	2401	2649
70°	1612	2419	2371
75°	1300	2173	1896
80°	1017	1525	1238
85°	695	442	315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.2
10°-20°	238.7	9.1
20°-30°	363.5	13.8
30°-40°	442.8	16.9
40°-50°	469.8	17.9
50°-60°	443.4	16.9
60°-70°	358.0	13.6
70°-80°	194.2	7.4
80°-90°	31.4	1.2
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°	685.5	26.1
0°-40°	1128.3	43.0
0°-60°	2041.4	77.8
0°-90°	2625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	879	877	871	877	875	83
15°	846	844	842	848	848	239
25°	785	783	785	793	795	361
35°	695	699	705	719	721	434
45°	580	588	607	629	639	447
55°	441	459	500	533	545	394
65°	285	320	377	408	416	282
75°	125	182	209	188	182	137
85°	22	25	14	12	10	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.2	879.2	879.2	879.2	879.2
2.5°	883.3	879.2	873.0	879.2	877.1
5°	879.2	877.1	871.0	877.1	875.1
7.5°	873.0	873.0	866.9	871.0	871.0
10°	866.9	864.8	860.7	866.9	864.8
12.5°	856.6	854.6	852.5	858.7	856.6
15°	846.4	844.3	842.3	848.4	848.4
17.5°	834.1	832.0	830.0	838.2	838.2
20°	817.7	817.7	817.7	825.9	823.8
22.5°	801.3	801.3	803.4	811.6	809.5
25°	784.9	782.9	784.9	793.1	795.2
27.5°	764.4	766.5	768.5	776.7	778.8
30°	743.9	746.0	748.0	758.3	760.3
32.5°	719.3	723.4	727.5	739.8	739.8
35°	694.7	698.8	705.0	719.3	721.4
37.5°	668.1	672.2	680.4	696.8	700.9
40°	639.4	645.6	657.8	674.2	680.4
42.5°	610.7	618.9	633.3	651.7	659.9
45°	580.0	588.2	606.6	629.2	639.4
47.5°	547.2	557.4	580.0	608.7	616.9
50°	512.3	526.7	553.3	584.1	594.3
52.5°	477.5	493.9	526.7	559.5	569.7
55°	440.6	459.1	500.0	532.8	545.1
57.5°	403.7	424.2	471.4	506.2	518.5
60°	364.8	389.4	440.6	475.5	485.7
62.5°	325.8	354.5	409.9	444.7	452.9
65°	284.9	319.7	377.1	407.8	416.0
67.5°	245.9	286.9	344.3	366.8	366.8
70°	204.9	250.0	307.4	313.6	301.3
72.5°	163.9	215.2	266.4	243.9	233.6
75°	125.0	182.4	209.0	188.5	182.4
77.5°	94.3	147.6	147.6	135.3	131.2
80°	65.6	112.7	98.4	86.1	79.9
82.5°	43.0	63.5	51.2	41.0	34.8
85°	22.5	24.6	14.3	12.3	10.2
87.5°	8.2	4.1	2.0	4.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)