

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: P277597

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277597
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: 22CZ2-44HE-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2800.0 lumens
Efficiency: N/A
Efficacy: 79.4 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

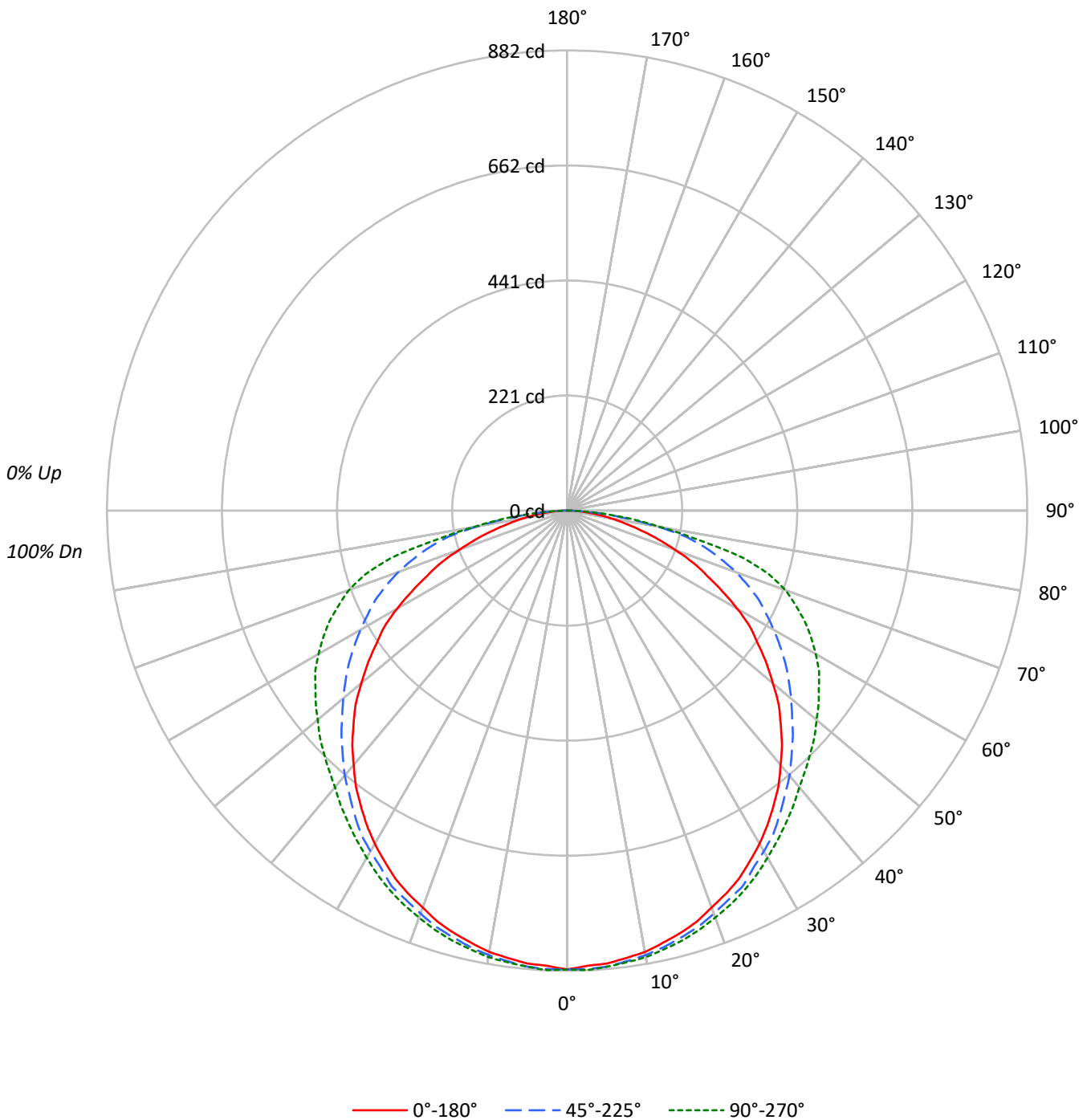
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2367	2367	2367
5°	2354	2370	2370
10°	2347	2364	2375
15°	2335	2359	2376
20°	2318	2354	2377
25°	2312	2361	2385
30°	2291	2343	2387
35°	2267	2334	2402
40°	2236	2330	2431
45°	2203	2328	2508
50°	2156	2346	2613
55°	2097	2396	2764
60°	2028	2461	2960
65°	1889	2584	3200
70°	1734	2707	3500
75°	1520	2849	3619
80°	1309	2713	2841
85°	1145	1973	2161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.0
10°-20°	238.9	8.5
20°-30°	364.4	13.0
30°-40°	445.0	15.9
40°-50°	475.8	17.0
50°-60°	459.2	16.4
60°-70°	395.3	14.1
70°-80°	267.5	9.6
80°-90°	70.6	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°	686.5	24.5
0°-40°	1131.5	40.4
0°-60°	2066.6	73.8
0°-90°	2800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	871	873	878	878	878	83
15°	838	840	847	851	853	237
25°	779	783	795	799	803	358
35°	690	696	711	725	731	432
45°	579	589	612	643	659	447
55°	447	461	511	562	589	401
65°	297	325	406	470	503	295
75°	146	194	274	330	348	157
85°	37	52	64	66	70	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.5	879.5	879.5	879.5	879.5
2.5°	873.3	875.4	879.5	879.5	881.6
5°	871.3	873.3	877.5	877.5	877.5
7.5°	865.1	867.2	871.3	873.3	873.3
10°	858.9	861.0	865.1	867.2	869.2
12.5°	848.6	850.7	856.9	861.0	861.0
15°	838.3	840.4	846.6	850.7	852.8
17.5°	826.0	830.1	836.3	840.4	842.5
20°	809.5	813.6	821.9	828.0	830.1
22.5°	795.1	799.2	807.4	813.6	817.7
25°	778.6	782.7	795.1	799.2	803.3
27.5°	758.0	762.1	772.4	780.7	786.8
30°	737.4	741.5	753.9	764.2	768.3
32.5°	714.7	720.9	735.3	743.6	749.8
35°	690.0	696.2	710.6	725.0	731.2
37.5°	665.3	671.5	685.9	704.4	712.7
40°	636.5	644.7	663.3	688.0	692.1
42.5°	609.7	620.0	636.5	665.3	675.6
45°	578.8	589.1	611.8	642.7	659.1
47.5°	550.0	560.3	585.0	622.1	642.7
50°	514.9	529.4	560.3	603.5	624.1
52.5°	482.0	494.3	535.5	582.9	607.6
55°	447.0	461.4	510.8	562.3	589.1
57.5°	416.1	428.4	484.0	541.7	572.6
60°	376.9	393.4	457.3	519.1	550.0
62.5°	335.7	360.5	430.5	494.3	527.3
65°	296.6	325.4	405.8	469.6	502.6
67.5°	261.6	292.5	374.9	442.9	473.8
70°	220.4	259.5	344.0	409.9	444.9
72.5°	183.3	226.6	309.0	374.9	405.8
75°	146.2	193.6	274.0	329.6	348.1
77.5°	113.3	158.6	234.8	251.3	253.4
80°	84.5	125.6	175.1	177.1	183.3
82.5°	57.7	88.6	113.3	123.6	125.6
85°	37.1	51.5	63.9	65.9	70.0
87.5°	16.5	18.5	22.7	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)