

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: P277596

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277596
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-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2751.0 lumens
Efficiency: N/A
Efficacy: 78.7 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

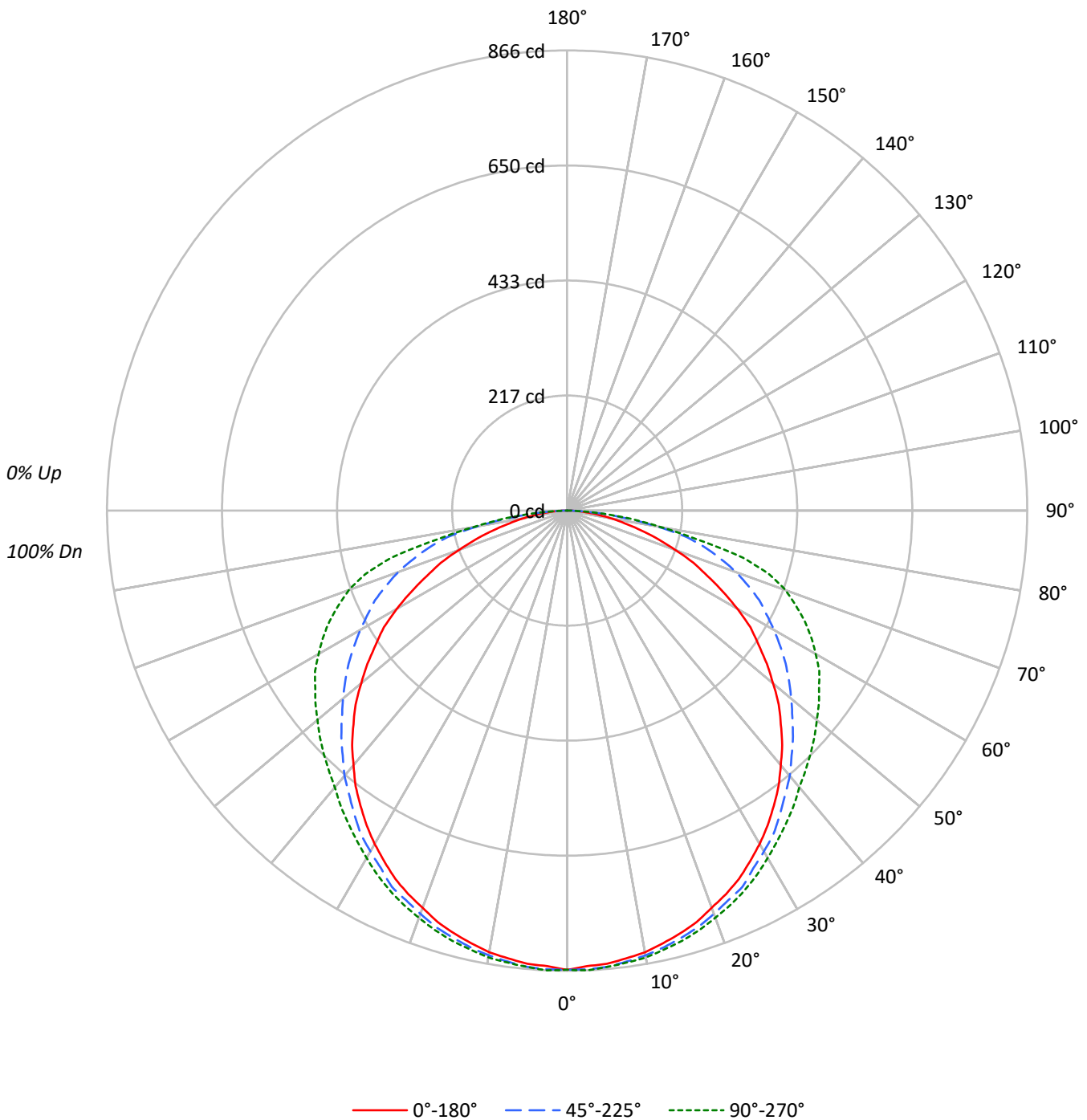
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2325	2325	2325
5°	2312	2329	2329
10°	2306	2323	2334
15°	2295	2317	2334
20°	2277	2312	2336
25°	2271	2320	2344
30°	2251	2302	2346
35°	2227	2294	2360
40°	2197	2289	2389
45°	2164	2288	2465
50°	2118	2305	2567
55°	2061	2355	2715
60°	1993	2418	2908
65°	1855	2539	3144
70°	1703	2659	3439
75°	1494	2799	3556
80°	1286	2665	2791
85°	1124	1936	2124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	3.0
10°-20°	234.7	8.5
20°-30°	358.1	13.0
30°-40°	437.2	15.9
40°-50°	467.5	17.0
50°-60°	451.2	16.4
60°-70°	388.4	14.1
70°-80°	262.8	9.6
80°-90°	69.3	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°	674.5	24.5
0°-40°	1111.7	40.4
0°-60°	2030.4	73.8
0°-90°	2751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	856	858	862	862	862	81
15°	824	826	832	836	838	232
25°	765	769	781	785	789	352
35°	678	684	698	712	718	424
45°	569	579	601	631	648	439
55°	439	453	502	552	579	394
65°	291	320	399	461	494	290
75°	144	190	269	324	342	154
85°	36	51	63	65	69	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.1	864.1	864.1	864.1	864.1
2.5°	858.1	860.1	864.1	864.1	866.2
5°	856.0	858.1	862.1	862.1	862.1
7.5°	850.0	852.0	856.0	858.1	858.1
10°	843.9	845.9	850.0	852.0	854.0
12.5°	833.8	835.8	841.9	845.9	845.9
15°	823.7	825.7	831.8	835.8	837.8
17.5°	811.5	815.6	821.6	825.7	827.7
20°	795.3	799.4	807.5	813.5	815.6
22.5°	781.2	785.2	793.3	799.4	803.4
25°	765.0	769.0	781.2	785.2	789.3
27.5°	744.7	748.8	758.9	767.0	773.1
30°	724.5	728.5	740.7	750.8	754.9
32.5°	702.2	708.3	722.5	730.6	736.6
35°	678.0	684.0	698.2	712.4	718.4
37.5°	653.7	659.7	673.9	692.1	700.2
40°	625.3	633.4	651.6	675.9	680.0
42.5°	599.0	609.1	625.3	653.7	663.8
45°	568.7	578.8	601.1	631.4	647.6
47.5°	540.3	550.5	574.7	611.2	631.4
50°	505.9	520.1	550.5	593.0	613.2
52.5°	473.6	485.7	526.2	572.7	597.0
55°	439.2	453.3	501.9	552.5	578.8
57.5°	408.8	420.9	475.6	532.2	562.6
60°	370.3	386.5	449.3	510.0	540.3
62.5°	329.9	354.2	423.0	485.7	518.1
65°	291.4	319.8	398.7	461.4	493.8
67.5°	257.0	287.4	368.3	435.1	465.5
70°	216.5	255.0	338.0	402.7	437.1
72.5°	180.1	222.6	303.6	368.3	398.7
75°	143.7	190.2	269.2	323.8	342.0
77.5°	111.3	155.8	230.7	246.9	248.9
80°	83.0	123.4	172.0	174.0	180.1
82.5°	56.7	87.0	111.3	121.4	123.4
85°	36.4	50.6	62.7	64.8	68.8
87.5°	16.2	18.2	22.3	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)