

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: P277598

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277598
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-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2838.1 lumens
Efficiency: N/A
Efficacy: 80.1 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

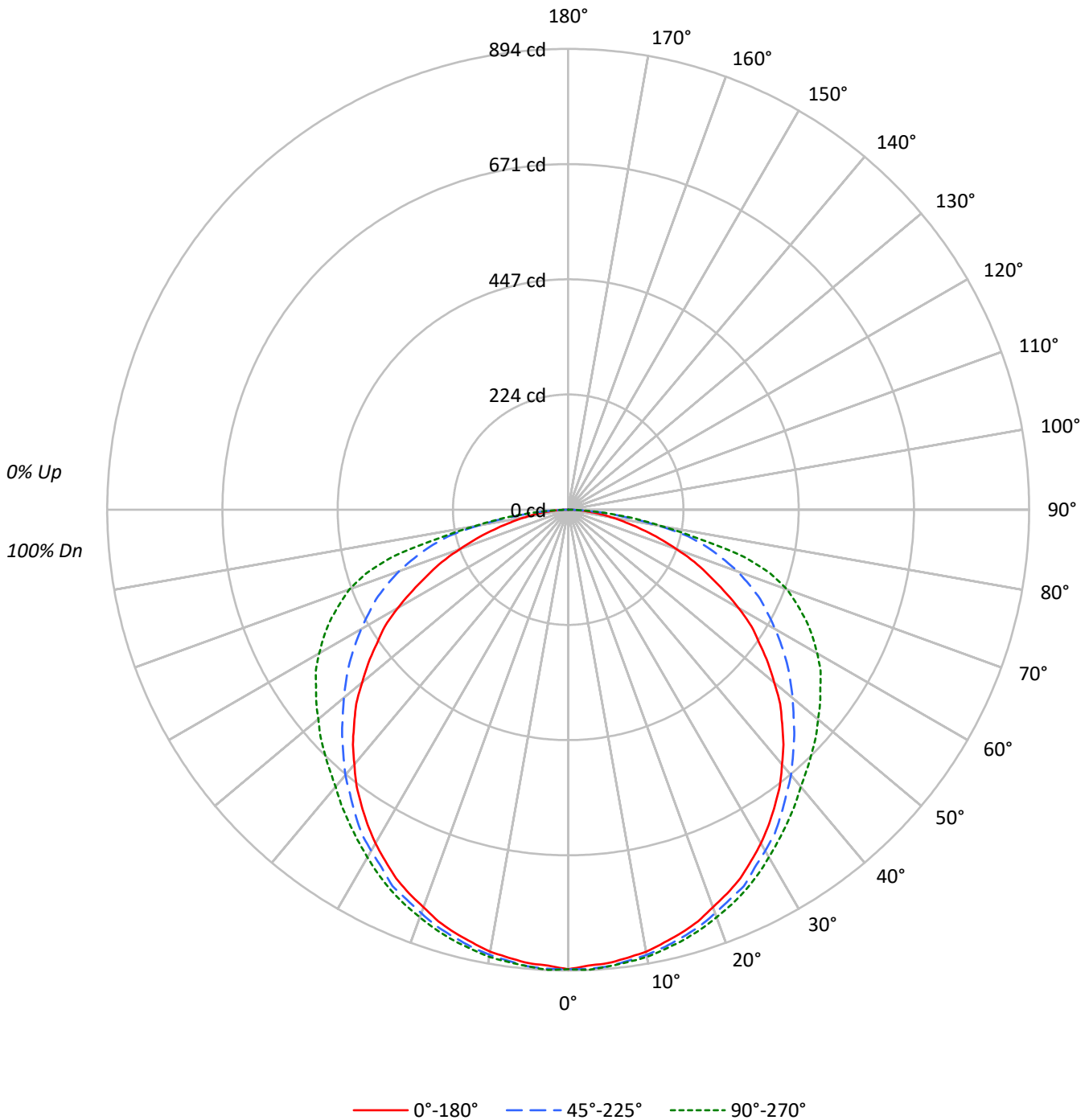
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2399	2399	2399
5°	2385	2402	2402
10°	2379	2396	2407
15°	2367	2391	2408
20°	2350	2385	2410
25°	2343	2393	2417
30°	2322	2374	2420
35°	2298	2366	2435
40°	2266	2362	2464
45°	2233	2360	2543
50°	2185	2377	2648
55°	2125	2429	2801
60°	2056	2495	3000
65°	1914	2619	3244
70°	1758	2744	3548
75°	1541	2887	3668
80°	1327	2751	2879
85°	1161	1998	2192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	3.0
10°-20°	242.1	8.5
20°-30°	369.4	13.0
30°-40°	451.0	15.9
40°-50°	482.3	17.0
50°-60°	465.5	16.4
60°-70°	400.7	14.1
70°-80°	271.1	9.6
80°-90°	71.5	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°	695.8	24.5
0°-40°	1146.9	40.4
0°-60°	2094.7	73.8
0°-90°	2838.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2838.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	883	885	889	889	889	84
15°	850	852	858	862	864	240
25°	789	793	806	810	814	363
35°	699	706	720	735	741	438
45°	587	597	620	651	668	453
55°	453	468	518	570	597	406
65°	301	330	411	476	509	299
75°	148	196	278	334	353	159
85°	38	52	65	67	71	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	891.5	891.5	891.5	891.5	891.5
2.5°	885.2	887.3	891.5	891.5	893.6
5°	883.1	885.2	889.4	889.4	889.4
7.5°	876.9	878.9	883.1	885.2	885.2
10°	870.6	872.7	876.9	878.9	881.0
12.5°	860.1	862.2	868.5	872.7	872.7
15°	849.7	851.8	858.1	862.2	864.3
17.5°	837.2	841.4	847.6	851.8	853.9
20°	820.5	824.7	833.0	839.3	841.4
22.5°	805.9	810.0	818.4	824.7	828.8
25°	789.2	793.3	805.9	810.0	814.2
27.5°	768.3	772.5	782.9	791.3	797.5
30°	747.4	751.6	764.1	774.6	778.7
32.5°	724.4	730.7	745.3	753.7	759.9
35°	699.4	705.7	720.3	734.9	741.1
37.5°	674.3	680.6	695.2	714.0	722.4
40°	645.1	653.5	672.3	697.3	701.5
42.5°	618.0	628.4	645.1	674.3	684.8
45°	586.7	597.1	620.1	651.4	668.1
47.5°	557.4	567.9	592.9	630.5	651.4
50°	521.9	536.5	567.9	611.7	632.6
52.5°	488.5	501.1	542.8	590.8	615.9
55°	453.0	467.7	517.8	570.0	597.1
57.5°	421.7	434.3	490.6	549.1	580.4
60°	382.1	398.8	463.5	526.1	557.4
62.5°	340.3	365.4	436.3	501.1	534.5
65°	300.6	329.9	411.3	476.0	509.4
67.5°	265.1	296.5	380.0	448.9	480.2
70°	223.4	263.1	348.7	415.5	451.0
72.5°	185.8	229.7	313.2	380.0	411.3
75°	148.2	196.2	277.7	334.0	352.8
77.5°	114.8	160.8	238.0	254.7	256.8
80°	85.6	127.4	177.5	179.5	185.8
82.5°	58.5	89.8	114.8	125.3	127.4
85°	37.6	52.2	64.7	66.8	71.0
87.5°	16.7	18.8	23.0	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)