

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: P277601

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277601
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-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2881.0 lumens
Efficiency: N/A
Efficacy: 79.6 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

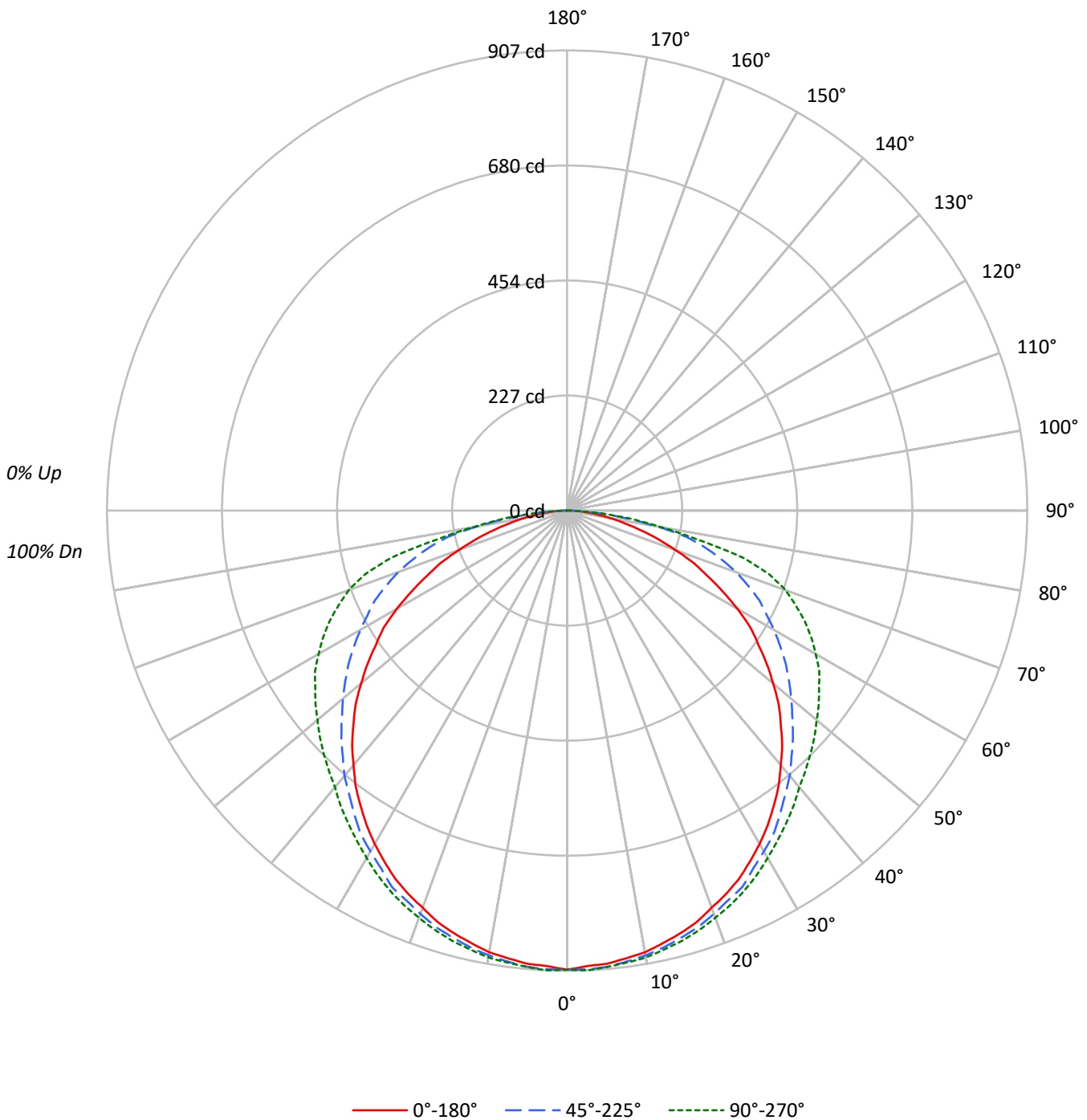
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2435	2435	2435
5°	2422	2439	2439
10°	2415	2432	2444
15°	2403	2427	2444
20°	2385	2422	2446
25°	2379	2429	2454
30°	2357	2410	2456
35°	2332	2402	2472
40°	2301	2397	2501
45°	2266	2396	2581
50°	2218	2413	2689
55°	2158	2466	2844
60°	2087	2532	3046
65°	1943	2658	3293
70°	1784	2784	3602
75°	1565	2931	3724
80°	1347	2791	2923
85°	1176	2029	2226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	3.0
10°-20°	245.8	8.5
20°-30°	375.0	13.0
30°-40°	457.9	15.9
40°-50°	489.6	17.0
50°-60°	472.5	16.4
60°-70°	406.8	14.1
70°-80°	275.2	9.6
80°-90°	72.6	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°	706.4	24.5
0°-40°	1164.3	40.4
0°-60°	2126.4	73.8
0°-90°	2881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2881.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	896	899	903	903	903	85
15°	863	865	871	875	877	243
25°	801	805	818	822	827	369
35°	710	716	731	746	752	444
45°	596	606	630	661	678	460
55°	460	475	526	579	606	412
65°	305	335	418	483	517	304
75°	150	199	282	339	358	161
85°	38	53	66	68	72	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.0	905.0	905.0	905.0	905.0
2.5°	898.6	900.7	905.0	905.0	907.1
5°	896.5	898.6	902.9	902.9	902.9
7.5°	890.1	892.3	896.5	898.6	898.6
10°	883.8	885.9	890.1	892.3	894.4
12.5°	873.2	875.3	881.7	885.9	885.9
15°	862.6	864.7	871.1	875.3	877.4
17.5°	849.9	854.1	860.5	864.7	866.8
20°	832.9	837.2	845.6	852.0	854.1
22.5°	818.1	822.3	830.8	837.2	841.4
25°	801.1	805.4	818.1	822.3	826.6
27.5°	779.9	784.2	794.8	803.2	809.6
30°	758.7	763.0	775.7	786.3	790.5
32.5°	735.4	741.8	756.6	765.1	771.5
35°	710.0	716.3	731.2	746.0	752.4
37.5°	684.6	690.9	705.8	724.8	733.3
40°	654.9	663.4	682.4	707.9	712.1
42.5°	627.3	637.9	654.9	684.6	695.2
45°	595.5	606.1	629.5	661.2	678.2
47.5°	565.9	576.5	601.9	640.1	661.2
50°	529.8	544.7	576.5	621.0	642.2
52.5°	495.9	508.6	551.0	599.8	625.2
55°	459.9	474.7	525.6	578.6	606.1
57.5°	428.1	440.8	498.1	557.4	589.2
60°	387.8	404.8	470.5	534.1	565.9
62.5°	345.5	370.9	442.9	508.6	542.6
65°	305.2	334.9	417.5	483.2	517.1
67.5°	269.2	301.0	385.7	455.7	487.5
70°	226.8	267.0	353.9	421.8	457.8
72.5°	188.6	233.1	317.9	385.7	417.5
75°	150.5	199.2	281.9	339.1	358.2
77.5°	116.6	163.2	241.6	258.6	260.7
80°	86.9	129.3	180.1	182.3	188.6
82.5°	59.3	91.1	116.6	127.2	129.3
85°	38.1	53.0	65.7	67.8	72.1
87.5°	17.0	19.1	23.3	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)