

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: P277600

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277600
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-5700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2873.0 lumens
Efficiency: N/A
Efficacy: 80.9 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

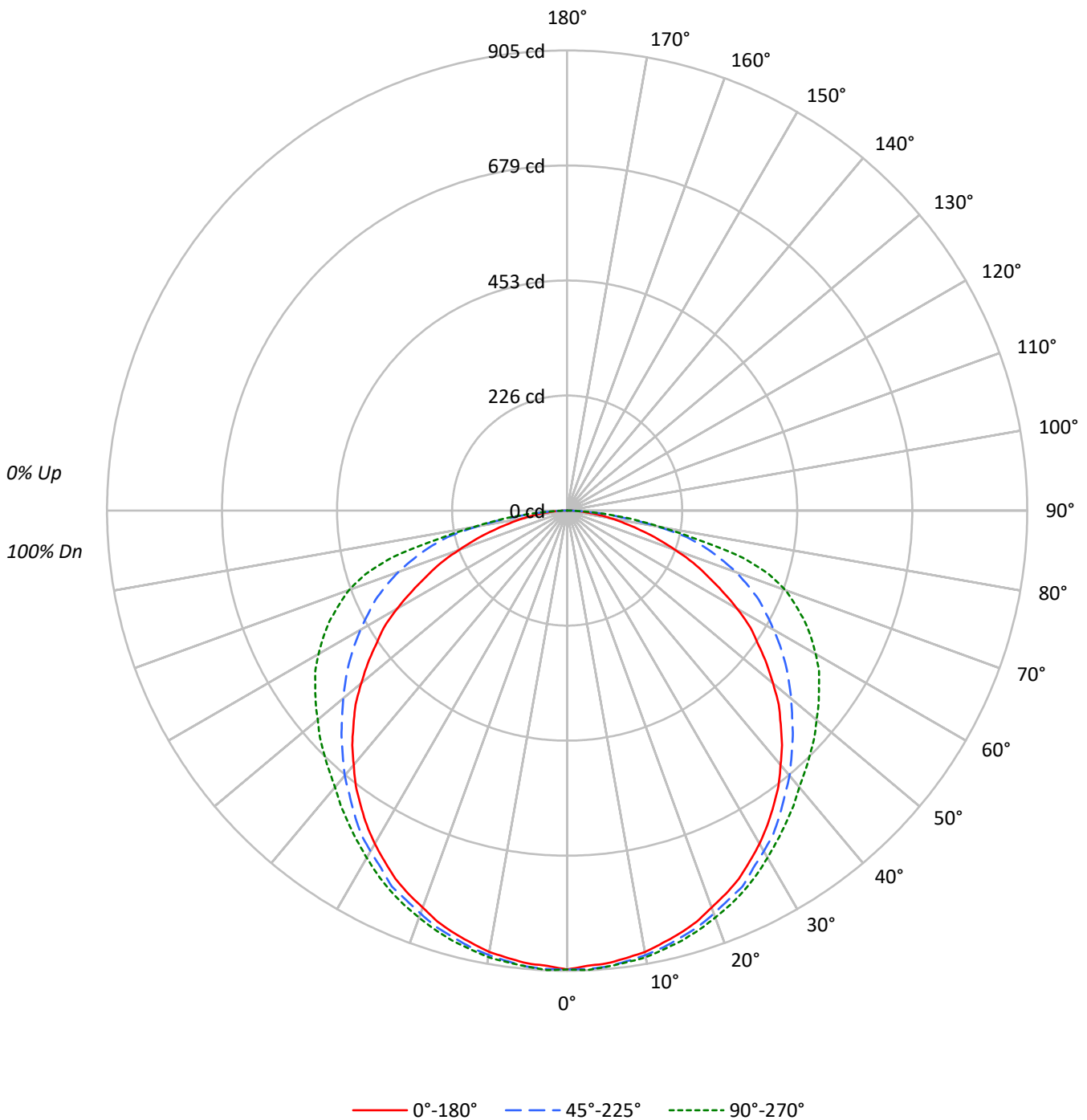
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2429	2429	2429
5°	2415	2432	2432
10°	2408	2426	2437
15°	2396	2420	2438
20°	2379	2415	2439
25°	2372	2422	2447
30°	2351	2403	2449
35°	2326	2395	2465
40°	2294	2390	2494
45°	2260	2389	2574
50°	2212	2407	2681
55°	2152	2459	2836
60°	2082	2525	3037
65°	1938	2651	3284
70°	1779	2777	3592
75°	1561	2923	3714
80°	1344	2783	2915
85°	1173	2022	2220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	3.0
10°-20°	245.1	8.5
20°-30°	374.0	13.0
30°-40°	456.6	15.9
40°-50°	488.2	17.0
50°-60°	471.2	16.4
60°-70°	405.7	14.1
70°-80°	274.5	9.6
80°-90°	72.4	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°	704.4	24.5
0°-40°	1161.0	40.4
0°-60°	2120.5	73.8
0°-90°	2873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2873.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	894	896	900	900	900	85
15°	860	862	869	873	875	243
25°	799	803	816	820	824	368
35°	708	714	729	744	750	443
45°	594	604	628	659	676	458
55°	459	473	524	577	604	411
65°	304	334	416	482	516	303
75°	150	199	281	338	357	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°	902.5	902.5	902.5	902.5	902.5
2.5°	896.1	898.2	902.5	902.5	904.6
5°	894.0	896.1	900.3	900.3	900.3
7.5°	887.7	889.8	894.0	896.1	896.1
10°	881.3	883.4	887.7	889.8	891.9
12.5°	870.8	872.9	879.2	883.4	883.4
15°	860.2	862.3	868.6	872.9	875.0
17.5°	847.5	851.7	858.1	862.3	864.4
20°	830.6	834.8	843.3	849.6	851.7
22.5°	815.8	820.0	828.5	834.8	839.1
25°	798.9	803.1	815.8	820.0	824.3
27.5°	777.8	782.0	792.6	801.0	807.4
30°	756.6	760.9	773.5	784.1	788.3
32.5°	733.4	739.7	754.5	763.0	769.3
35°	708.0	714.4	729.2	743.9	750.3
37.5°	682.7	689.0	703.8	722.8	731.3
40°	653.1	661.5	680.5	705.9	710.1
42.5°	625.6	636.2	653.1	682.7	693.2
45°	593.9	604.5	627.7	659.4	676.3
47.5°	564.3	574.9	600.2	638.3	659.4
50°	528.4	543.2	574.9	619.3	640.4
52.5°	494.6	507.2	549.5	598.1	623.5
55°	458.6	473.4	524.1	577.0	604.5
57.5°	426.9	439.6	496.7	555.8	587.5
60°	386.8	403.7	469.2	532.6	564.3
62.5°	344.5	369.9	441.7	507.2	541.1
65°	304.3	333.9	416.4	481.9	515.7
67.5°	268.4	300.1	384.7	454.4	486.1
70°	226.1	266.3	353.0	420.6	456.5
72.5°	188.1	232.5	317.0	384.7	416.4
75°	150.1	198.7	281.1	338.2	357.2
77.5°	116.2	162.7	240.9	257.8	260.0
80°	86.7	128.9	179.6	181.8	188.1
82.5°	59.2	90.9	116.2	126.8	128.9
85°	38.0	52.8	65.5	67.6	71.9
87.5°	16.9	19.0	23.2	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)