

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: P277599

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277599
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-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2866.0 lumens
Efficiency: N/A
Efficacy: 80.7 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

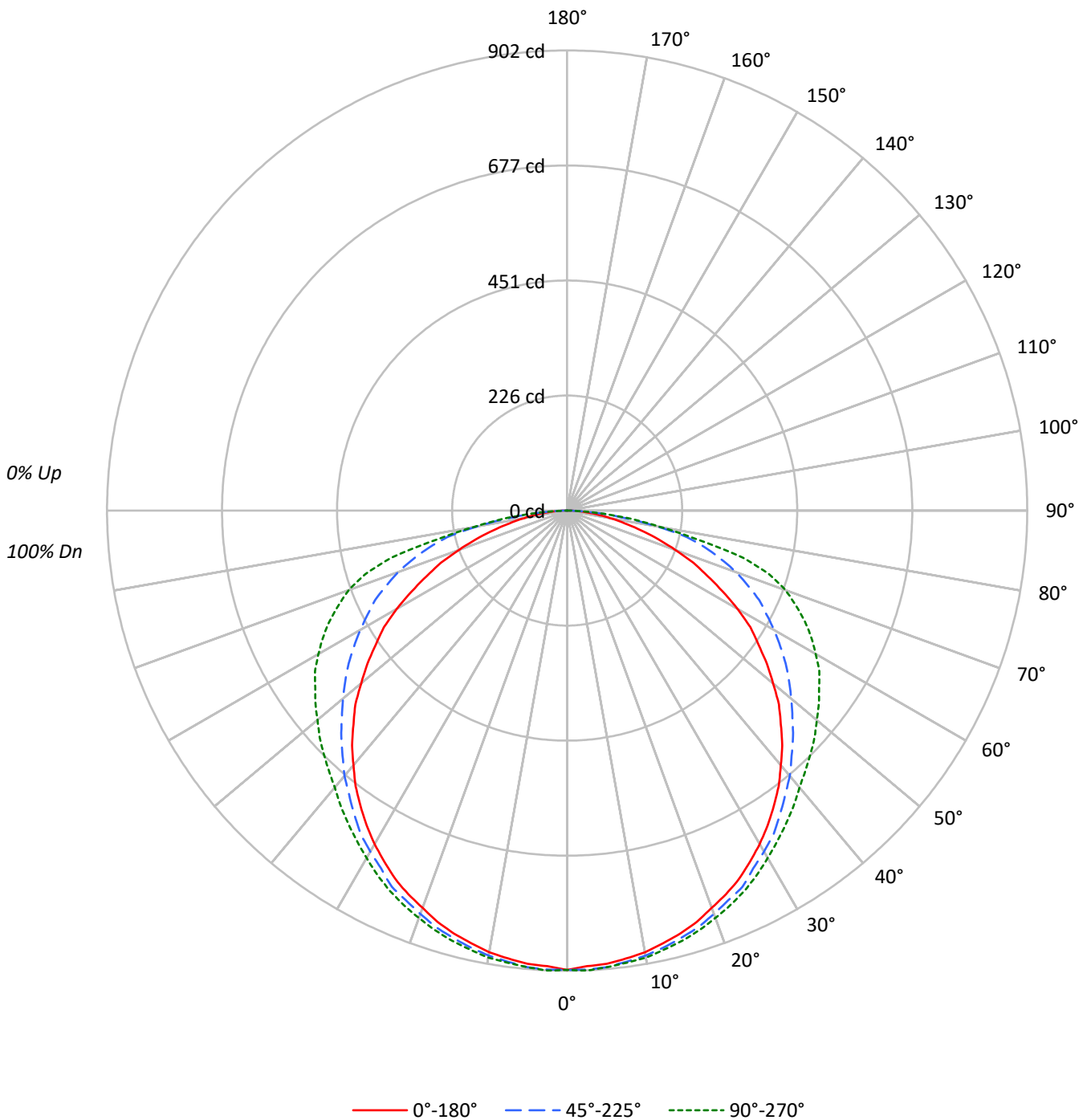
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2423	2423	2423
5°	2409	2426	2426
10°	2402	2420	2431
15°	2391	2414	2432
20°	2373	2409	2433
25°	2366	2416	2442
30°	2345	2398	2444
35°	2320	2390	2459
40°	2289	2385	2488
45°	2254	2383	2568
50°	2207	2401	2674
55°	2146	2453	2829
60°	2076	2519	3030
65°	1933	2644	3275
70°	1775	2770	3583
75°	1556	2915	3705
80°	1339	2777	2907
85°	1173	2019	2214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	3.0
10°-20°	244.5	8.5
20°-30°	373.0	13.0
30°-40°	455.5	15.9
40°-50°	487.0	17.0
50°-60°	470.1	16.4
60°-70°	404.7	14.1
70°-80°	273.8	9.6
80°-90°	72.3	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°	702.7	24.5
0°-40°	1158.2	40.4
0°-60°	2115.3	73.8
0°-90°	2866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	892	894	898	898	898	85
15°	858	860	866	871	873	242
25°	797	801	814	818	822	367
35°	706	713	727	742	748	442
45°	592	603	626	658	675	457
55°	458	472	523	576	603	410
65°	304	333	415	481	514	302
75°	150	198	280	337	356	161
85°	38	53	65	68	72	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	900.3	900.3	900.3	900.3	900.3
2.5°	893.9	896.0	900.3	900.3	902.4
5°	891.8	893.9	898.2	898.2	898.2
7.5°	885.5	887.6	891.8	893.9	893.9
10°	879.2	881.3	885.5	887.6	889.7
12.5°	868.6	870.7	877.1	881.3	881.3
15°	858.1	860.2	866.5	870.7	872.9
17.5°	845.4	849.7	856.0	860.2	862.3
20°	828.6	832.8	841.2	847.6	849.7
22.5°	813.8	818.0	826.5	832.8	837.0
25°	797.0	801.2	813.8	818.0	822.3
27.5°	775.9	780.1	790.6	799.1	805.4
30°	754.8	759.0	771.7	782.2	786.4
32.5°	731.6	737.9	752.7	761.1	767.4
35°	706.3	712.6	727.4	742.1	748.5
37.5°	681.0	687.3	702.1	721.1	729.5
40°	651.5	659.9	678.9	704.2	708.4
42.5°	624.1	634.6	651.5	681.0	691.5
45°	592.4	603.0	626.2	657.8	674.7
47.5°	562.9	573.5	598.8	636.7	657.8
50°	527.1	541.8	573.5	617.7	638.8
52.5°	493.4	506.0	548.2	596.7	622.0
55°	457.5	472.3	522.9	575.6	603.0
57.5°	425.9	438.5	495.5	554.5	586.1
60°	385.8	402.7	468.1	531.3	562.9
62.5°	343.7	369.0	440.6	506.0	539.7
65°	303.6	333.1	415.3	480.7	514.4
67.5°	267.8	299.4	383.7	453.3	484.9
70°	225.6	265.7	352.1	419.6	455.4
72.5°	187.6	231.9	316.3	383.7	415.3
75°	149.7	198.2	280.4	337.3	356.3
77.5°	116.0	162.3	240.4	257.2	259.3
80°	86.4	128.6	179.2	181.3	187.6
82.5°	59.0	90.7	116.0	126.5	128.6
85°	38.0	52.7	65.4	67.5	71.7
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)