

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: P277650

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277650
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-L92765-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2434.0 lumens
Efficiency: N/A
Efficacy: 69.6 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

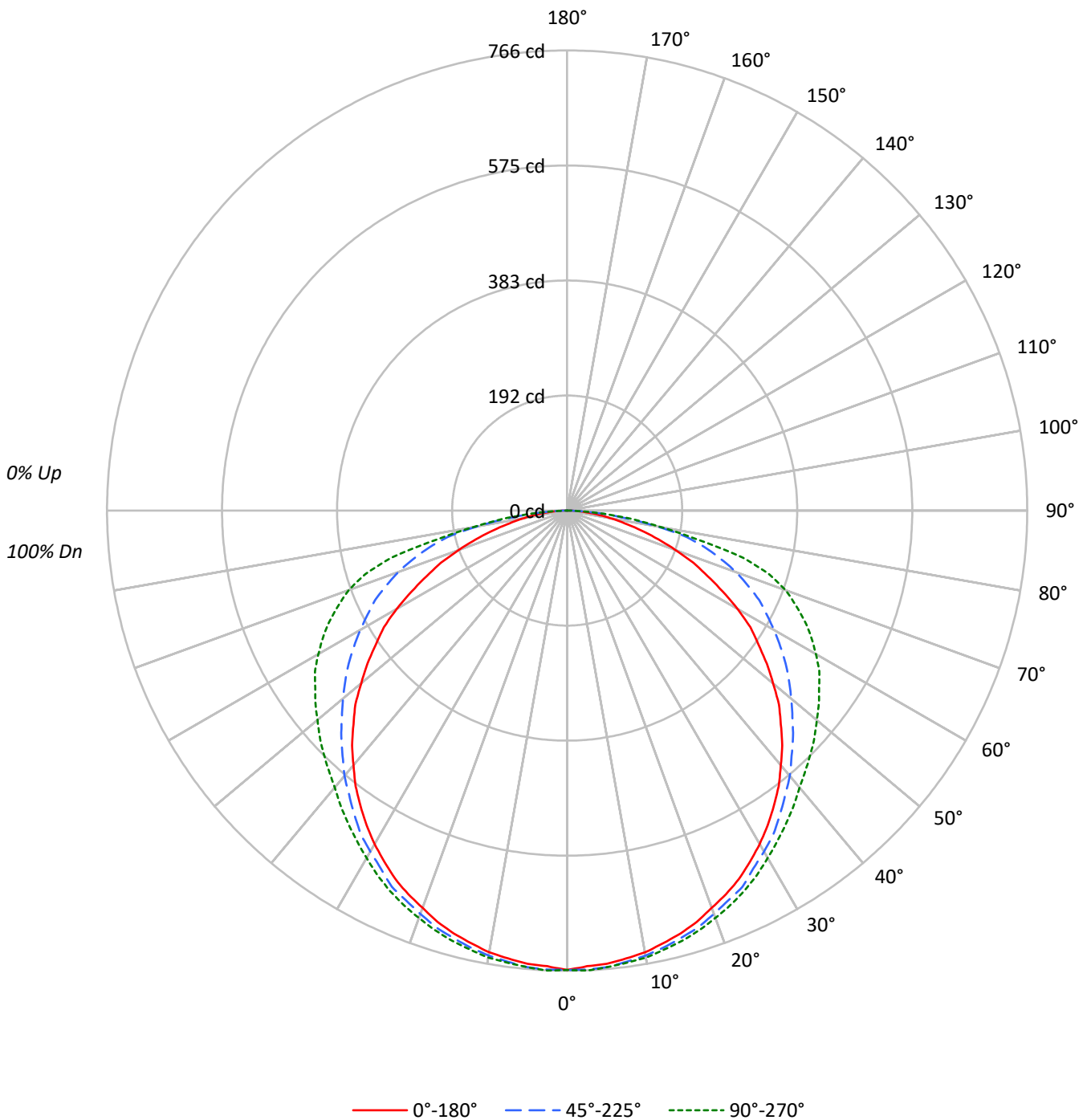
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2058	2058	2058
5°	2046	2061	2061
10°	2040	2055	2065
15°	2030	2050	2065
20°	2015	2046	2066
25°	2010	2052	2073
30°	1992	2036	2075
35°	1970	2029	2088
40°	1944	2025	2113
45°	1915	2024	2181
50°	1874	2039	2271
55°	1823	2084	2403
60°	1764	2139	2573
65°	1642	2246	2782
70°	1507	2353	3043
75°	1321	2476	3146
80°	1137	2359	2470
85°	994	1714	1880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	3.0
10°-20°	207.7	8.5
20°-30°	316.8	13.0
30°-40°	386.8	15.9
40°-50°	413.6	17.0
50°-60°	399.2	16.4
60°-70°	343.7	14.1
70°-80°	232.5	9.6
80°-90°	61.4	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°	596.8	24.5
0°-40°	983.6	40.4
0°-60°	1796.4	73.8
0°-90°	2434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	757	759	763	763	763	72
15°	729	730	736	740	741	206
25°	677	680	691	695	698	311
35°	600	605	618	630	636	375
45°	503	512	532	559	573	388
55°	388	401	444	489	512	348
65°	258	283	353	408	437	256
75°	127	168	238	286	303	136
85°	32	45	56	57	61	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.6	764.6	764.6	764.6	764.6
2.5°	759.2	761.0	764.6	764.6	766.4
5°	757.4	759.2	762.8	762.8	762.8
7.5°	752.0	753.8	757.4	759.2	759.2
10°	746.7	748.4	752.0	753.8	755.6
12.5°	737.7	739.5	744.9	748.4	748.4
15°	728.8	730.5	735.9	739.5	741.3
17.5°	718.0	721.6	727.0	730.5	732.3
20°	703.7	707.3	714.4	719.8	721.6
22.5°	691.1	694.7	701.9	707.3	710.8
25°	676.8	680.4	691.1	694.7	698.3
27.5°	658.9	662.5	671.5	678.6	684.0
30°	641.0	644.6	655.3	664.3	667.9
32.5°	621.3	626.7	639.2	646.4	651.8
35°	599.8	605.2	617.7	630.3	635.6
37.5°	578.3	583.7	596.3	612.4	619.5
40°	553.3	560.4	576.6	598.0	601.6
42.5°	530.0	539.0	553.3	578.3	587.3
45°	503.1	512.1	531.8	558.6	573.0
47.5°	478.1	487.0	508.5	540.7	558.6
50°	447.6	460.2	487.0	524.6	542.5
52.5°	419.0	429.7	465.5	506.7	528.2
55°	388.5	401.1	444.1	488.8	512.1
57.5°	361.7	372.4	420.8	470.9	497.8
60°	327.7	342.0	397.5	451.2	478.1
62.5°	291.9	313.3	374.2	429.7	458.4
65°	257.8	282.9	352.7	408.2	436.9
67.5°	227.4	254.3	325.9	385.0	411.8
70°	191.6	225.6	299.0	356.3	386.8
72.5°	159.4	197.0	268.6	325.9	352.7
75°	127.1	168.3	238.1	286.5	302.6
77.5°	98.5	137.9	204.1	218.4	220.2
80°	73.4	109.2	152.2	154.0	159.4
82.5°	50.1	77.0	98.5	107.4	109.2
85°	32.2	44.8	55.5	57.3	60.9
87.5°	14.3	16.1	19.7	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)