

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: P277546

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277546
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-L93050-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2574.0 lumens
Efficiency: N/A
Efficacy: 71.4 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

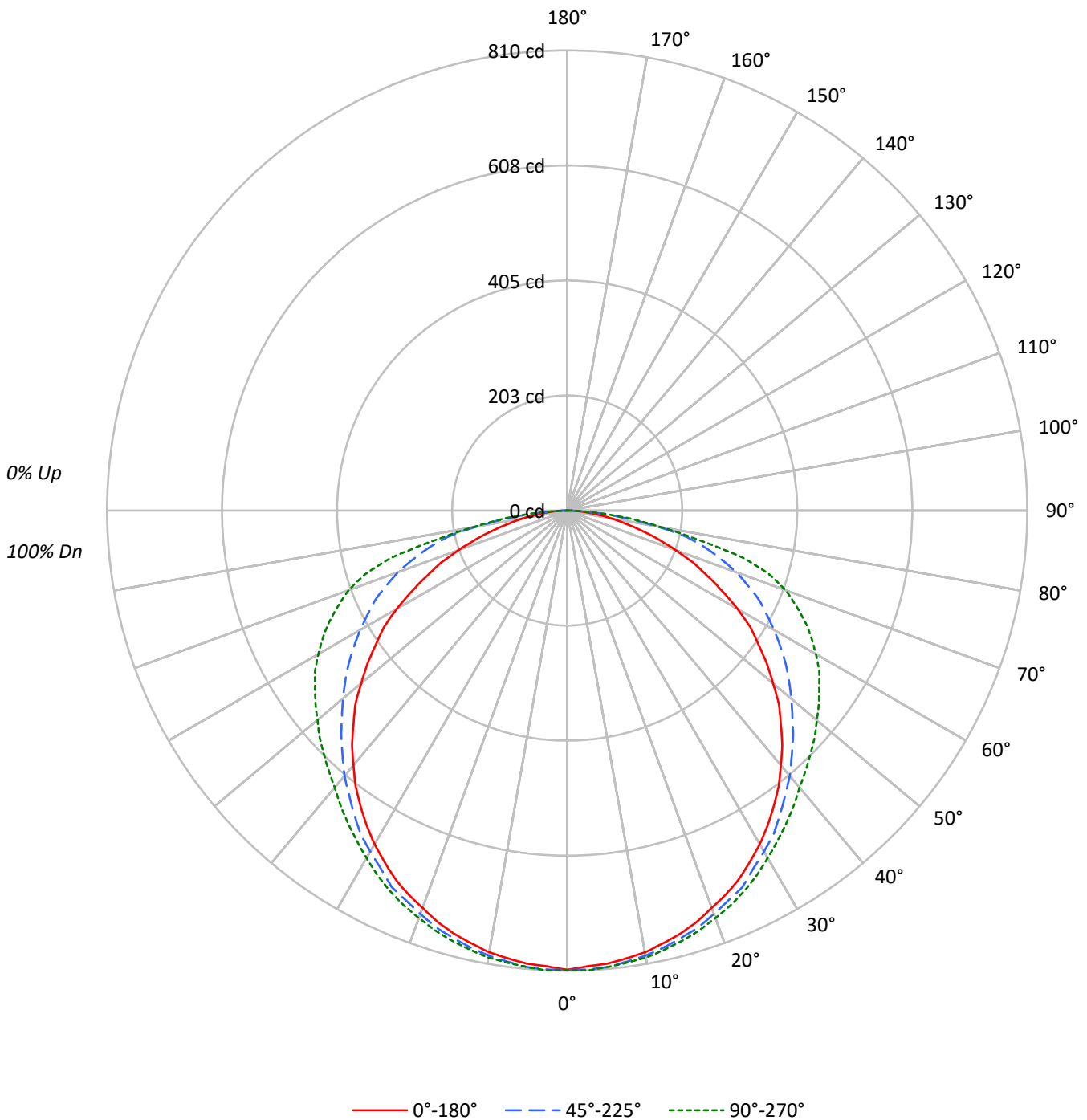
Input Watts (W): 36.049032
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2176	2176	2176
5°	2164	2179	2179
10°	2158	2173	2184
15°	2147	2168	2184
20°	2131	2164	2185
25°	2125	2170	2193
30°	2106	2153	2195
35°	2084	2146	2208
40°	2055	2142	2235
45°	2025	2140	2306
50°	1982	2156	2402
55°	1928	2203	2541
60°	1865	2263	2721
65°	1736	2375	2942
70°	1594	2488	3218
75°	1397	2618	3327
80°	1203	2495	2611
85°	1053	1812	1988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.0
10°-20°	219.6	8.5
20°-30°	335.0	13.0
30°-40°	409.1	15.9
40°-50°	437.4	17.0
50°-60°	422.2	16.4
60°-70°	363.4	14.1
70°-80°	245.9	9.6
80°-90°	64.9	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°	631.1	24.5
0°-40°	1040.2	40.4
0°-60°	1899.8	73.8
0°-90°	2574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	801	803	807	807	807	76
15°	771	773	778	782	784	217
25°	716	720	731	735	738	329
35°	634	640	653	666	672	397
45°	532	542	562	591	606	411
55°	411	424	470	517	542	368
65°	273	299	373	432	462	271
75°	134	178	252	303	320	144
85°	34	47	59	61	64	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	808.5	808.5	808.5	808.5	808.5
2.5°	802.9	804.8	808.5	808.5	810.4
5°	801.0	802.9	806.6	806.6	806.6
7.5°	795.3	797.2	801.0	802.9	802.9
10°	789.6	791.5	795.3	797.2	799.1
12.5°	780.1	782.0	787.7	791.5	791.5
15°	770.7	772.6	778.2	782.0	783.9
17.5°	759.3	763.1	768.8	772.6	774.5
20°	744.2	747.9	755.5	761.2	763.1
22.5°	730.9	734.7	742.3	747.9	751.7
25°	715.8	719.5	730.9	734.7	738.5
27.5°	696.8	700.6	710.1	717.6	723.3
30°	677.9	681.7	693.0	702.5	706.3
32.5°	657.1	662.7	676.0	683.6	689.2
35°	634.3	640.0	653.3	666.5	672.2
37.5°	611.6	617.3	630.5	647.6	655.2
40°	585.1	592.7	609.7	632.4	636.2
42.5°	560.5	570.0	585.1	611.6	621.1
45°	532.1	541.6	562.4	590.8	605.9
47.5°	505.6	515.0	537.8	571.8	590.8
50°	473.4	486.6	515.0	554.8	573.7
52.5°	443.1	454.4	492.3	535.9	558.6
55°	410.9	424.2	469.6	516.9	541.6
57.5°	382.5	393.9	445.0	498.0	526.4
60°	346.5	361.7	420.4	477.2	505.6
62.5°	308.6	331.4	395.7	454.4	484.7
65°	272.7	299.2	373.0	431.7	462.0
67.5°	240.5	268.9	344.6	407.1	435.5
70°	202.6	238.6	316.2	376.8	409.0
72.5°	168.5	208.3	284.0	344.6	373.0
75°	134.4	178.0	251.8	303.0	320.0
77.5°	104.1	145.8	215.9	231.0	232.9
80°	77.6	115.5	161.0	162.8	168.5
82.5°	53.0	81.4	104.1	113.6	115.5
85°	34.1	47.3	58.7	60.6	64.4
87.5°	15.1	17.0	20.8	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)