

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: P277594

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277594
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-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2602.0 lumens
Efficiency: N/A
Efficacy: 75.8 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

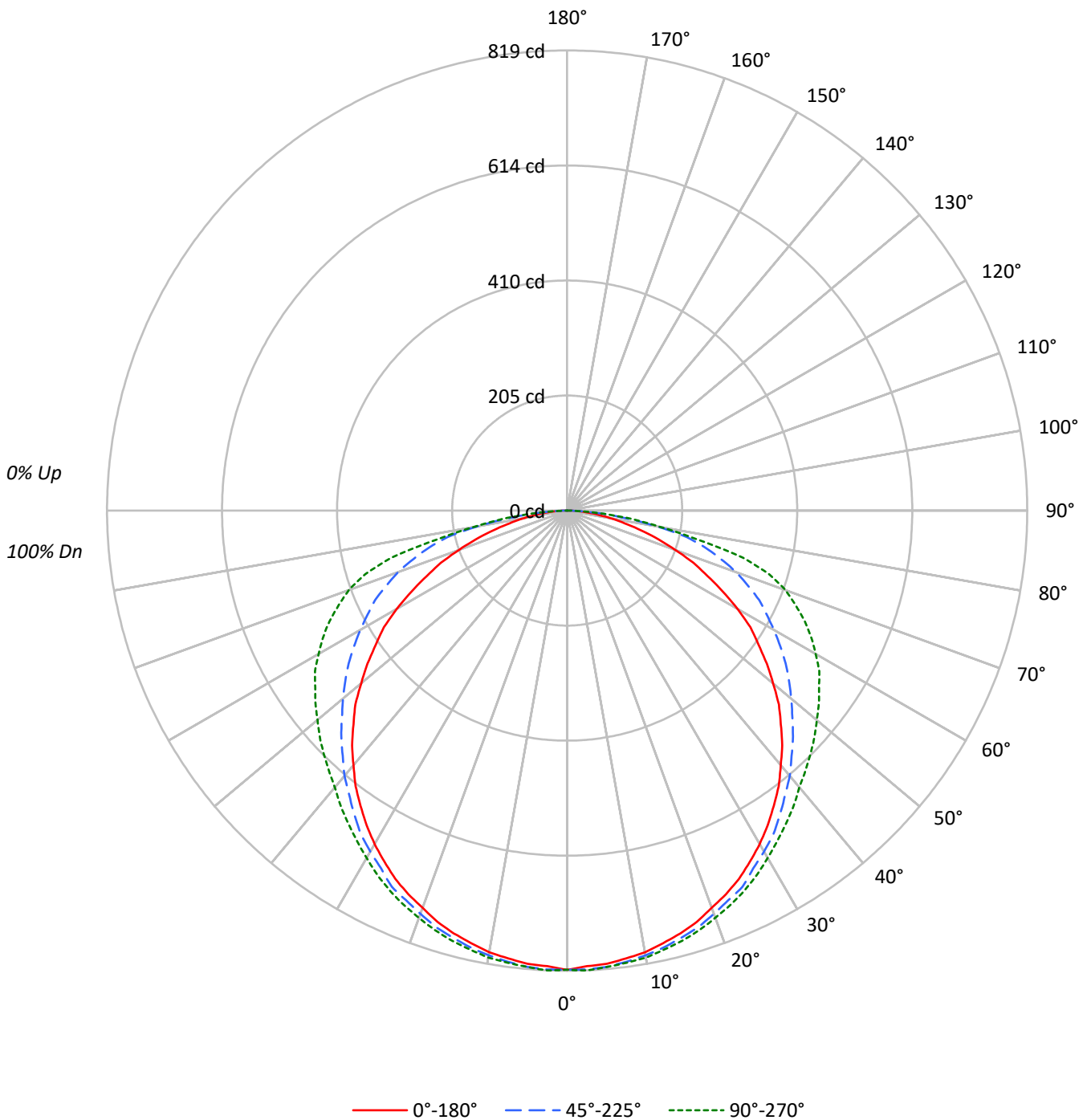
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2199	2199	2199
5°	2187	2203	2203
10°	2181	2197	2207
15°	2170	2192	2208
20°	2154	2187	2209
25°	2148	2194	2216
30°	2129	2177	2219
35°	2106	2169	2232
40°	2078	2165	2259
45°	2047	2163	2331
50°	2003	2179	2428
55°	1949	2227	2568
60°	1885	2287	2751
65°	1755	2401	2974
70°	1611	2515	3253
75°	1413	2647	3363
80°	1216	2521	2641
85°	1065	1831	2010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.0
10°-20°	222.0	8.5
20°-30°	338.7	13.0
30°-40°	413.5	15.9
40°-50°	442.2	17.0
50°-60°	426.8	16.4
60°-70°	367.4	14.1
70°-80°	248.6	9.6
80°-90°	65.6	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°	638.0	24.5
0°-40°	1051.5	40.4
0°-60°	1920.5	73.8
0°-90°	2602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	810	812	815	815	815	77
15°	779	781	787	790	792	220
25°	724	727	739	743	746	333
35°	641	647	660	674	680	401
45°	538	547	568	597	612	415
55°	415	429	475	523	547	372
65°	276	302	377	436	467	274
75°	136	180	255	306	324	146
85°	34	48	59	61	65	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.3	817.3	817.3	817.3	817.3
2.5°	811.6	813.5	817.3	817.3	819.2
5°	809.7	811.6	815.4	815.4	815.4
7.5°	803.9	805.8	809.7	811.6	811.6
10°	798.2	800.1	803.9	805.8	807.8
12.5°	788.6	790.5	796.3	800.1	800.1
15°	779.1	781.0	786.7	790.5	792.4
17.5°	767.6	771.4	777.1	781.0	782.9
20°	752.3	756.1	763.7	769.5	771.4
22.5°	738.9	742.7	750.3	756.1	759.9
25°	723.5	727.4	738.9	742.7	746.5
27.5°	704.4	708.2	717.8	725.5	731.2
30°	685.3	689.1	700.6	710.1	714.0
32.5°	664.2	669.9	683.3	691.0	696.7
35°	641.2	647.0	660.4	673.8	679.5
37.5°	618.3	624.0	637.4	654.6	662.3
40°	591.5	599.1	616.3	639.3	643.1
42.5°	566.6	576.2	591.5	618.3	627.8
45°	537.9	547.4	568.5	597.2	612.5
47.5°	511.1	520.6	543.6	578.1	597.2
50°	478.5	491.9	520.6	560.8	580.0
52.5°	447.9	459.4	497.7	541.7	564.7
55°	415.4	428.8	474.7	522.6	547.4
57.5°	386.7	398.1	449.8	503.4	532.1
60°	350.3	365.6	424.9	482.4	511.1
62.5°	312.0	335.0	400.1	459.4	490.0
65°	275.6	302.4	377.1	436.4	467.0
67.5°	243.1	271.8	348.4	411.5	440.2
70°	204.8	241.2	319.7	380.9	413.5
72.5°	170.4	210.6	287.1	348.4	377.1
75°	135.9	179.9	254.6	306.3	323.5
77.5°	105.3	147.4	218.2	233.5	235.4
80°	78.5	116.8	162.7	164.6	170.4
82.5°	53.6	82.3	105.3	114.8	116.8
85°	34.5	47.9	59.3	61.3	65.1
87.5°	15.3	17.2	21.1	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)