

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: P277514

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277514
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-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2756.0 lumens
Efficiency: N/A
Efficacy: 79.7 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

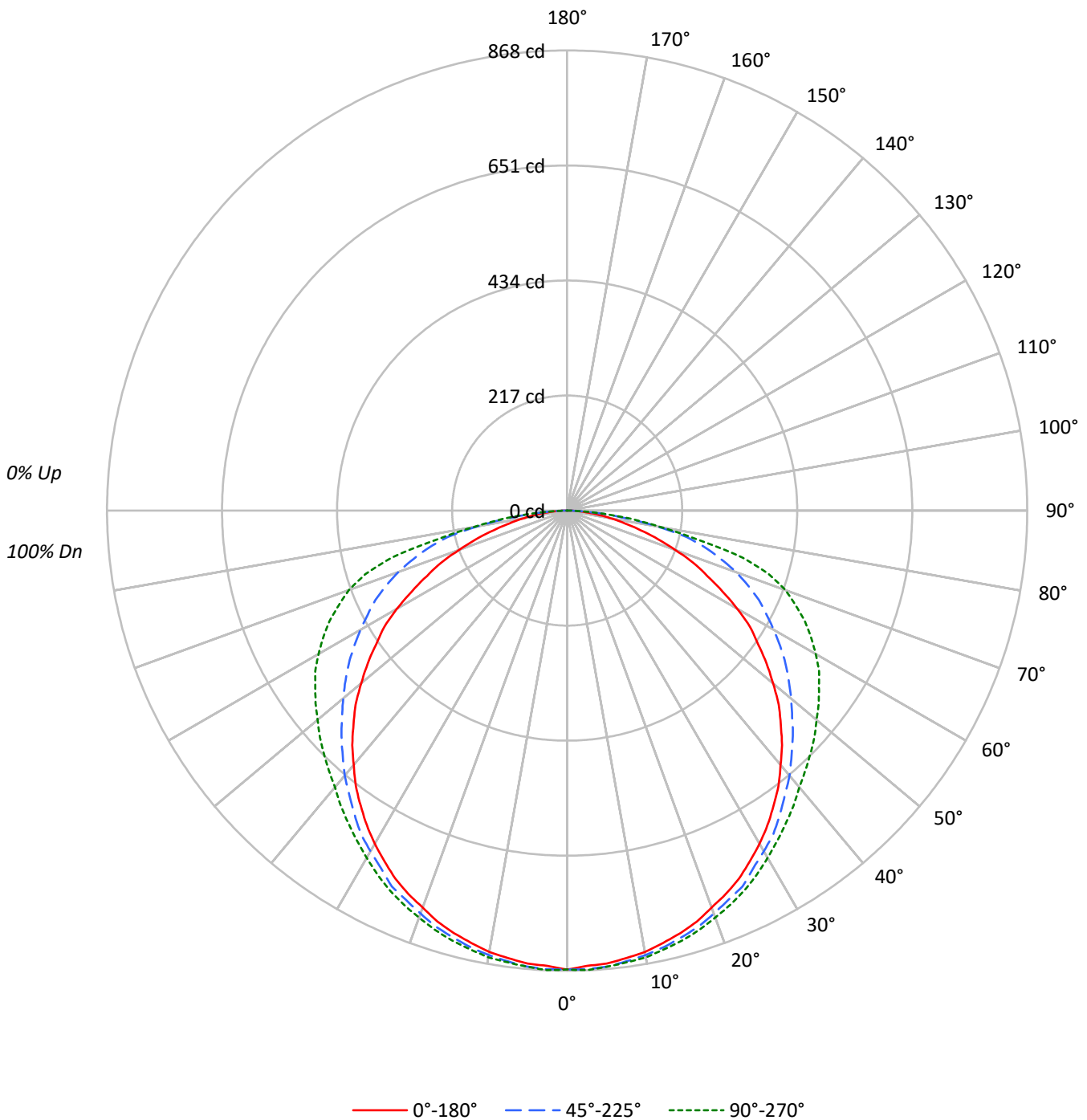
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2330	2330	2330
5°	2317	2333	2333
10°	2310	2327	2338
15°	2299	2321	2338
20°	2282	2316	2340
25°	2276	2324	2348
30°	2255	2306	2350
35°	2231	2298	2364
40°	2201	2293	2393
45°	2168	2291	2469
50°	2122	2309	2572
55°	2064	2359	2720
60°	1997	2422	2913
65°	1859	2543	3150
70°	1707	2664	3445
75°	1496	2803	3562
80°	1288	2670	2796
85°	1127	1939	2127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	3.0
10°-20°	235.1	8.5
20°-30°	358.7	13.0
30°-40°	438.0	15.9
40°-50°	468.3	17.0
50°-60°	452.0	16.4
60°-70°	389.1	14.1
70°-80°	263.3	9.6
80°-90°	69.5	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°	675.7	24.5
0°-40°	1113.7	40.4
0°-60°	2034.1	73.8
0°-90°	2756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	858	860	864	864	864	81
15°	825	827	833	837	839	233
25°	766	770	783	787	791	353
35°	679	685	700	714	720	425
45°	570	580	602	633	649	440
55°	440	454	503	554	580	394
65°	292	320	399	462	495	290
75°	144	191	270	324	343	154
85°	36	51	63	65	69	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	865.7	865.7	865.7	865.7	865.7
2.5°	859.6	861.7	865.7	865.7	867.7
5°	857.6	859.6	863.7	863.7	863.7
7.5°	851.5	853.5	857.6	859.6	859.6
10°	845.4	847.5	851.5	853.5	855.6
12.5°	835.3	837.3	843.4	847.5	847.5
15°	825.2	827.2	833.3	837.3	839.4
17.5°	813.0	817.0	823.1	827.2	829.2
20°	796.8	800.8	808.9	815.0	817.0
22.5°	782.6	786.6	794.7	800.8	804.9
25°	766.4	770.4	782.6	786.6	790.7
27.5°	746.1	750.1	760.3	768.4	774.5
30°	725.8	729.9	742.0	752.2	756.2
32.5°	703.5	709.6	723.8	731.9	738.0
35°	679.2	685.3	699.5	713.7	719.7
37.5°	654.9	660.9	675.1	693.4	701.5
40°	626.5	634.6	652.8	677.2	681.2
42.5°	600.1	610.3	626.5	654.9	665.0
45°	569.7	579.8	602.1	632.6	648.8
47.5°	541.3	551.5	575.8	612.3	632.6
50°	506.9	521.0	551.5	594.0	614.3
52.5°	474.4	486.6	527.1	573.8	598.1
55°	439.9	454.1	502.8	553.5	579.8
57.5°	409.5	421.7	476.4	533.2	563.6
60°	371.0	387.2	450.1	510.9	541.3
62.5°	330.5	354.8	423.7	486.6	519.0
65°	291.9	320.3	399.4	462.3	494.7
67.5°	257.5	287.9	369.0	435.9	466.3
70°	216.9	255.5	338.6	403.5	437.9
72.5°	180.4	223.0	304.1	369.0	399.4
75°	143.9	190.6	269.6	324.4	342.6
77.5°	111.5	156.1	231.1	247.3	249.4
80°	83.1	123.7	172.3	174.4	180.4
82.5°	56.8	87.2	111.5	121.6	123.7
85°	36.5	50.7	62.8	64.9	68.9
87.5°	16.2	18.2	22.3	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)