

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: P260242

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-SQP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2766.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

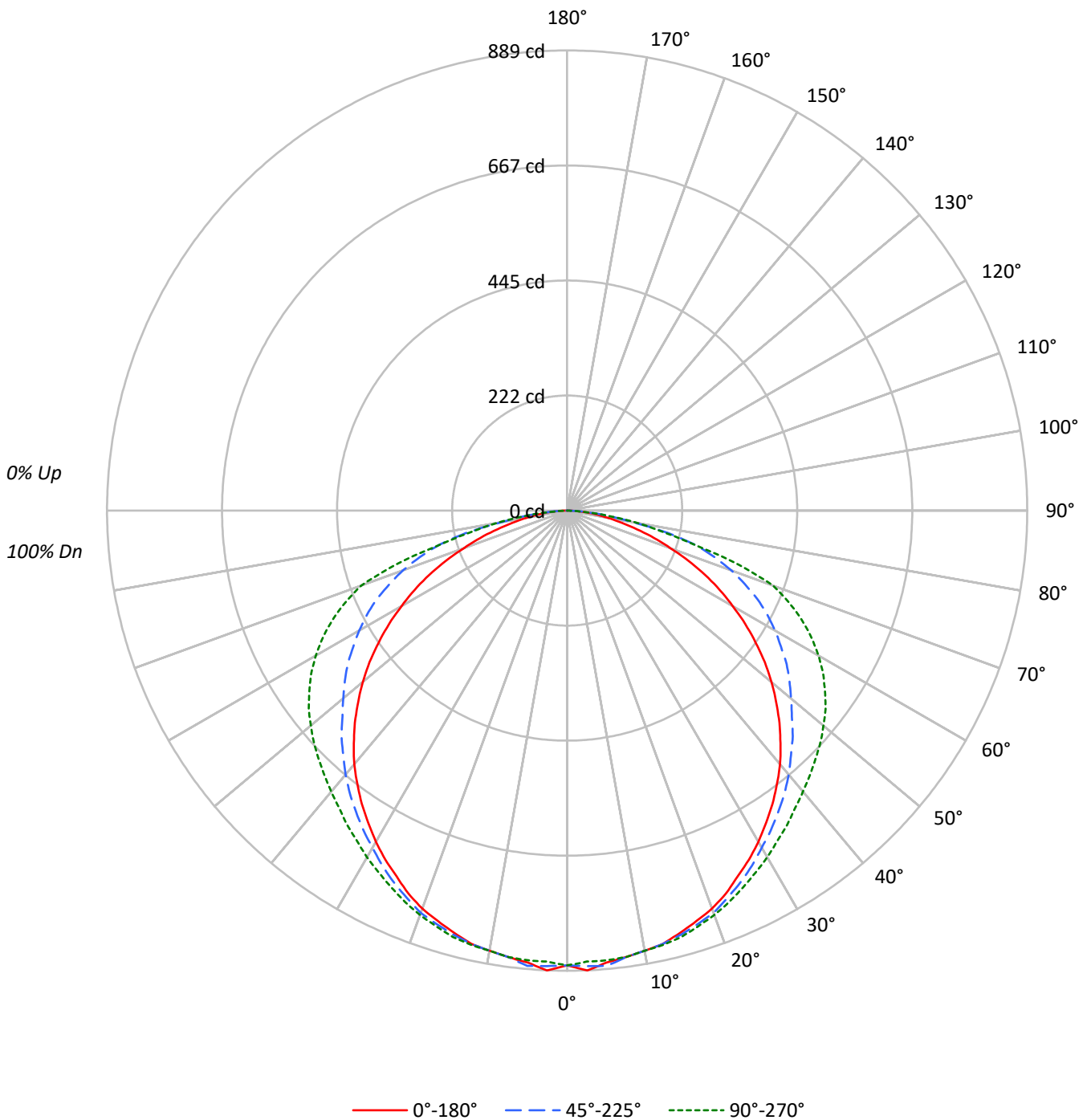
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2364	2364	2364
5°	2367	2385	2356
10°	2360	2360	2360
15°	2352	2364	2376
20°	2344	2368	2381
25°	2315	2353	2385
30°	2296	2336	2403
35°	2272	2336	2435
40°	2249	2339	2490
45°	2207	2346	2583
50°	2158	2365	2707
55°	2086	2429	2852
60°	1989	2497	3017
65°	1874	2585	3187
70°	1674	2653	3330
75°	1451	2658	2636
80°	1232	1963	2131
85°	1062	1328	1195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	3.0
10°-20°	239.6	8.7
20°-30°	365.1	13.2
30°-40°	446.7	16.1
40°-50°	480.6	17.4
50°-60°	465.5	16.8
60°-70°	394.4	14.3
70°-80°	238.4	8.6
80°-90°	52.4	1.9
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°	688.0	24.9
0°-40°	1134.7	41.0
0°-60°	2080.9	75.2
0°-90°	2766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	876	876	883	879	872	83
15°	844	846	848	851	853	238
25°	780	784	793	799	803	360
35°	692	696	711	730	741	433
45°	580	591	616	655	679	447
55°	445	464	518	578	608	397
65°	294	326	406	470	500	290
75°	140	189	256	260	254	150
85°	34	41	43	41	39	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	878.6	878.6	878.6	878.6	878.6
2.5°	889.3	887.1	880.7	876.4	872.1
5°	876.4	876.4	882.9	878.6	872.1
7.5°	870.0	870.0	870.0	880.7	870.0
10°	863.5	865.7	863.5	872.1	863.5
12.5°	857.1	857.1	857.1	859.2	859.2
15°	844.2	846.3	848.5	850.6	852.8
17.5°	831.3	833.4	837.7	839.9	842.0
20°	818.4	820.6	827.0	827.0	831.3
22.5°	801.2	801.2	809.8	812.0	818.4
25°	779.7	784.0	792.6	799.1	803.4
27.5°	760.4	764.7	773.3	781.9	788.3
30°	738.9	743.2	751.8	764.7	773.3
32.5°	715.3	719.6	732.5	747.5	756.1
35°	691.7	696.0	711.0	730.3	741.1
37.5°	665.9	672.3	689.5	711.0	723.9
40°	640.1	646.6	665.9	689.5	708.9
42.5°	610.0	618.6	640.1	672.3	693.8
45°	580.0	590.7	616.5	655.2	678.8
47.5°	547.8	558.5	588.6	638.0	663.7
50°	515.5	528.4	564.9	618.6	646.6
52.5°	481.2	494.1	541.3	599.3	629.4
55°	444.6	464.0	517.7	577.8	607.9
57.5°	408.1	429.6	489.8	554.2	586.4
60°	369.5	395.2	464.0	528.4	560.6
62.5°	332.9	360.9	436.1	500.5	532.7
65°	294.3	326.5	406.0	470.4	500.5
67.5°	253.5	294.3	371.6	433.9	464.0
70°	212.7	259.9	337.2	395.2	423.2
72.5°	176.1	225.5	298.6	348.0	348.0
75°	139.6	189.0	255.6	259.9	253.5
77.5°	107.4	154.7	199.8	182.6	186.9
80°	79.5	118.1	126.7	133.2	137.5
82.5°	53.7	79.5	81.6	85.9	85.9
85°	34.4	40.8	43.0	40.8	38.7
87.5°	15.0	17.2	12.9	8.6	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)