

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: P260243

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260243
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2904.0 lumens
Efficiency: N/A
Efficacy: 82.0 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

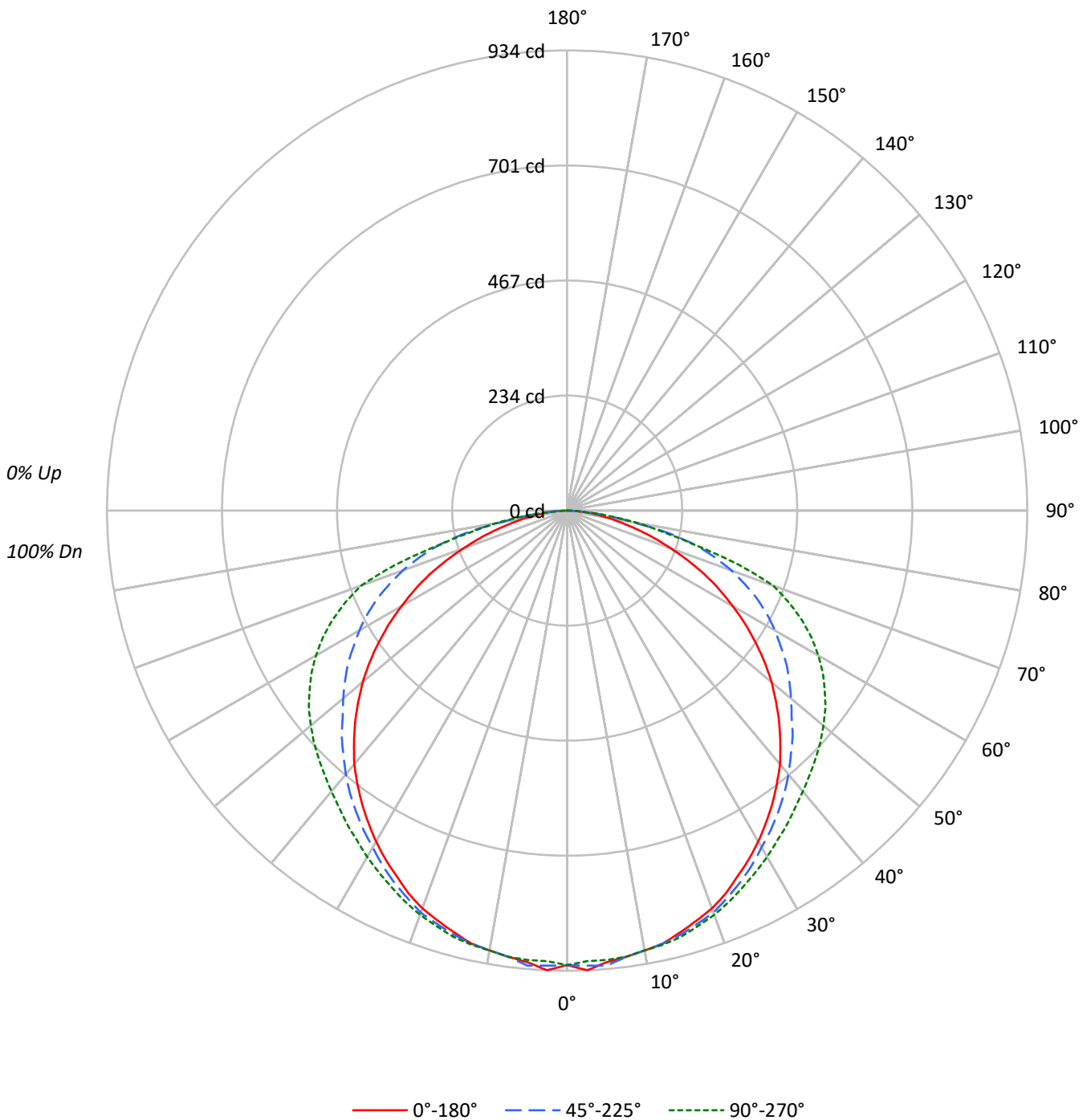
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2482	2482	2482
5°	2485	2504	2473
10°	2477	2477	2477
15°	2469	2482	2494
20°	2460	2487	2499
25°	2431	2471	2504
30°	2411	2453	2523
35°	2386	2452	2556
40°	2361	2456	2614
45°	2317	2463	2712
50°	2266	2483	2842
55°	2190	2550	2994
60°	2088	2622	3168
65°	1968	2714	3346
70°	1757	2786	3496
75°	1524	2791	2767
80°	1292	2063	2236
85°	1115	1392	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.0
10°-20°	251.5	8.7
20°-30°	383.3	13.2
30°-40°	469.0	16.1
40°-50°	504.6	17.4
50°-60°	488.8	16.8
60°-70°	414.1	14.3
70°-80°	250.3	8.6
80°-90°	55.0	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°	722.4	24.9
0°-40°	1191.3	41.0
0°-60°	2184.7	75.2
0°-90°	2904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2904.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	920	920	927	922	916	87
15°	886	889	891	893	895	250
25°	819	823	832	839	844	378
35°	726	731	746	767	778	454
45°	609	620	647	688	713	469
55°	467	487	544	607	638	417
65°	309	343	426	494	526	304
75°	147	198	268	273	266	158
85°	36	43	45	43	41	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.4	922.4	922.4	922.4	922.4
2.5°	933.7	931.4	924.6	920.1	915.6
5°	920.1	920.1	926.9	922.4	915.6
7.5°	913.4	913.4	913.4	924.6	913.4
10°	906.6	908.9	906.6	915.6	906.6
12.5°	899.8	899.8	899.8	902.1	902.1
15°	886.3	888.6	890.8	893.1	895.3
17.5°	872.8	875.0	879.5	881.8	884.0
20°	859.2	861.5	868.3	868.3	872.8
22.5°	841.2	841.2	850.2	852.5	859.2
25°	818.6	823.2	832.2	838.9	843.5
27.5°	798.4	802.9	811.9	820.9	827.7
30°	775.8	780.3	789.3	802.9	811.9
32.5°	751.0	755.5	769.0	784.8	793.8
35°	726.2	730.7	746.5	766.8	778.1
37.5°	699.1	705.9	723.9	746.5	760.0
40°	672.1	678.8	699.1	723.9	744.2
42.5°	640.5	649.5	672.1	705.9	728.4
45°	608.9	620.2	647.3	687.8	712.7
47.5°	575.1	586.4	617.9	669.8	696.9
50°	541.3	554.8	593.1	649.5	678.8
52.5°	505.2	518.7	568.3	629.2	660.8
55°	466.8	487.1	543.5	606.7	638.2
57.5°	428.5	451.0	514.2	581.8	615.7
60°	387.9	415.0	487.1	554.8	588.6
62.5°	349.6	378.9	457.8	525.5	559.3
65°	309.0	342.8	426.2	493.9	525.5
67.5°	266.1	309.0	390.2	455.6	487.1
70°	223.3	272.9	354.1	415.0	444.3
72.5°	184.9	236.8	313.5	365.3	365.3
75°	146.6	198.5	268.4	272.9	266.1
77.5°	112.8	162.4	209.7	191.7	196.2
80°	83.4	124.0	133.1	139.8	144.3
82.5°	56.4	83.4	85.7	90.2	90.2
85°	36.1	42.8	45.1	42.8	40.6
87.5°	15.8	18.0	13.5	9.0	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)