

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: P260324

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260324
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-L82765-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: 2761.0 lumens
Efficiency: N/A
Efficacy: 79.0 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

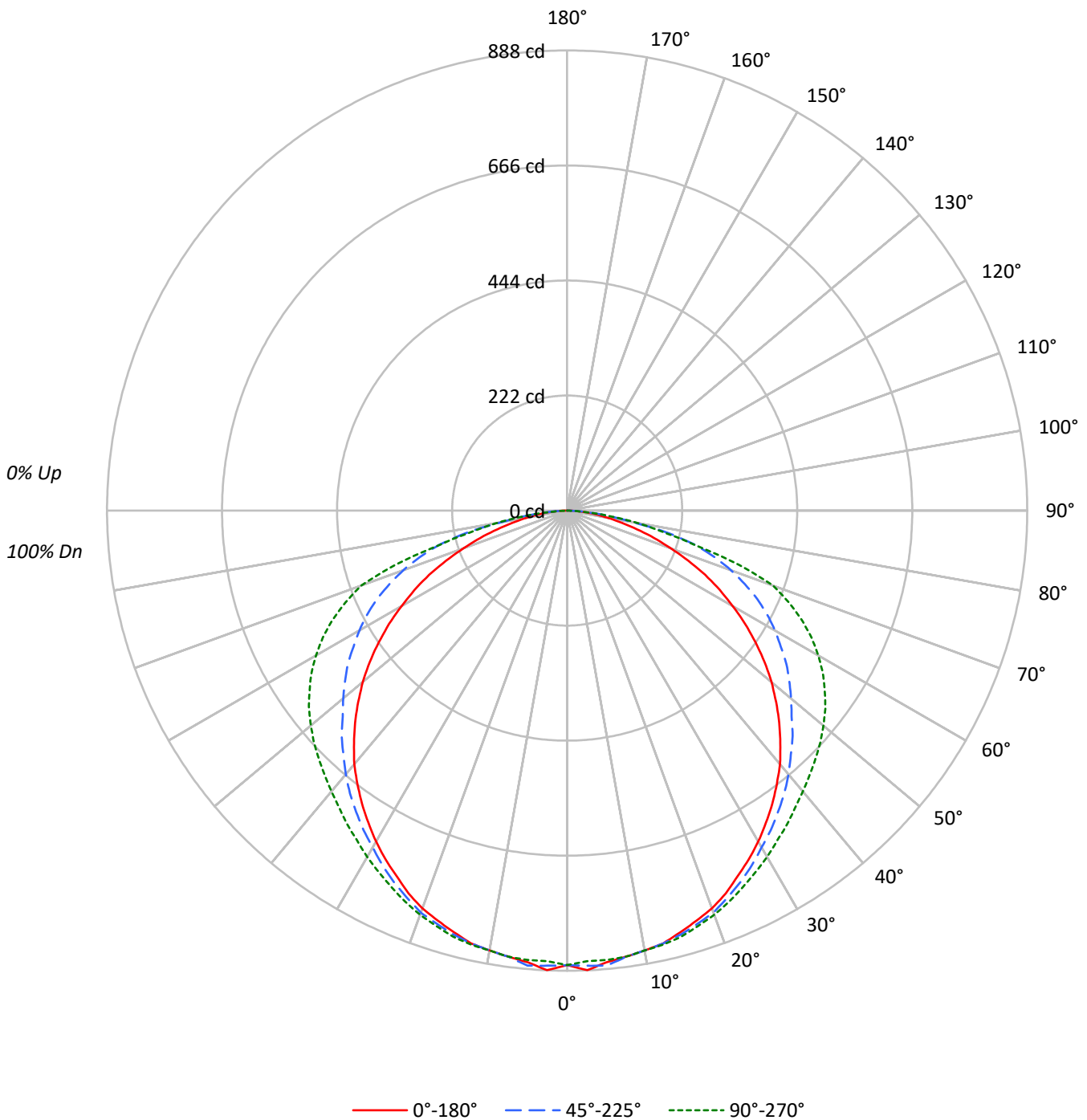
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2360	2360	2360
5°	2363	2381	2351
10°	2355	2355	2355
15°	2348	2359	2371
20°	2339	2364	2376
25°	2311	2349	2381
30°	2292	2332	2399
35°	2268	2331	2430
40°	2245	2335	2486
45°	2203	2342	2579
50°	2154	2361	2702
55°	2082	2424	2847
60°	1985	2492	3012
65°	1871	2580	3181
70°	1670	2648	3323
75°	1449	2653	2630
80°	1229	1960	2126
85°	1059	1325	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	3.0
10°-20°	239.1	8.7
20°-30°	364.4	13.2
30°-40°	445.9	16.1
40°-50°	479.7	17.4
50°-60°	464.7	16.8
60°-70°	393.6	14.3
70°-80°	237.9	8.6
80°-90°	52.3	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°	686.8	24.9
0°-40°	1132.7	41.0
0°-60°	2077.1	75.2
0°-90°	2761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	875	875	881	877	870	83
15°	843	845	847	849	851	238
25°	778	783	791	798	802	359
35°	690	695	710	729	740	432
45°	579	590	615	654	678	446
55°	444	463	517	577	607	396
65°	294	326	405	470	500	289
75°	139	189	255	259	253	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°	877.0	877.0	877.0	877.0	877.0
2.5°	887.7	885.5	879.1	874.8	870.5
5°	874.8	874.8	881.3	877.0	870.5
7.5°	868.4	868.4	868.4	879.1	868.4
10°	862.0	864.1	862.0	870.5	862.0
12.5°	855.5	855.5	855.5	857.7	857.7
15°	842.7	844.8	846.9	849.1	851.2
17.5°	829.8	831.9	836.2	838.4	840.5
20°	816.9	819.1	825.5	825.5	829.8
22.5°	799.8	799.8	808.4	810.5	816.9
25°	778.3	782.6	791.2	797.6	801.9
27.5°	759.0	763.3	771.9	780.5	786.9
30°	737.6	741.9	750.5	763.3	771.9
32.5°	714.0	718.3	731.2	746.2	754.7
35°	690.4	694.7	709.7	729.0	739.7
37.5°	664.7	671.1	688.3	709.7	722.6
40°	639.0	645.4	664.7	688.3	707.6
42.5°	608.9	617.5	639.0	671.1	692.6
45°	578.9	589.6	615.4	654.0	677.6
47.5°	546.8	557.5	587.5	636.8	662.6
50°	514.6	527.5	563.9	617.5	645.4
52.5°	480.3	493.2	540.3	598.2	628.2
55°	443.8	463.1	516.7	576.8	606.8
57.5°	407.4	428.8	488.9	553.2	585.4
60°	368.8	394.5	463.1	527.5	559.6
62.5°	332.3	360.2	435.3	499.6	531.8
65°	293.8	325.9	405.2	469.6	499.6
67.5°	253.0	293.8	370.9	433.1	463.1
70°	212.3	259.4	336.6	394.5	422.4
72.5°	175.8	225.1	298.0	347.4	347.4
75°	139.4	188.7	255.2	259.4	253.0
77.5°	107.2	154.4	199.4	182.3	186.5
80°	79.3	117.9	126.5	132.9	137.2
82.5°	53.6	79.3	81.5	85.8	85.8
85°	34.3	40.7	42.9	40.7	38.6
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)