

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: P260326

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260326
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-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2848.0 lumens
Efficiency: N/A
Efficacy: 80.4 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

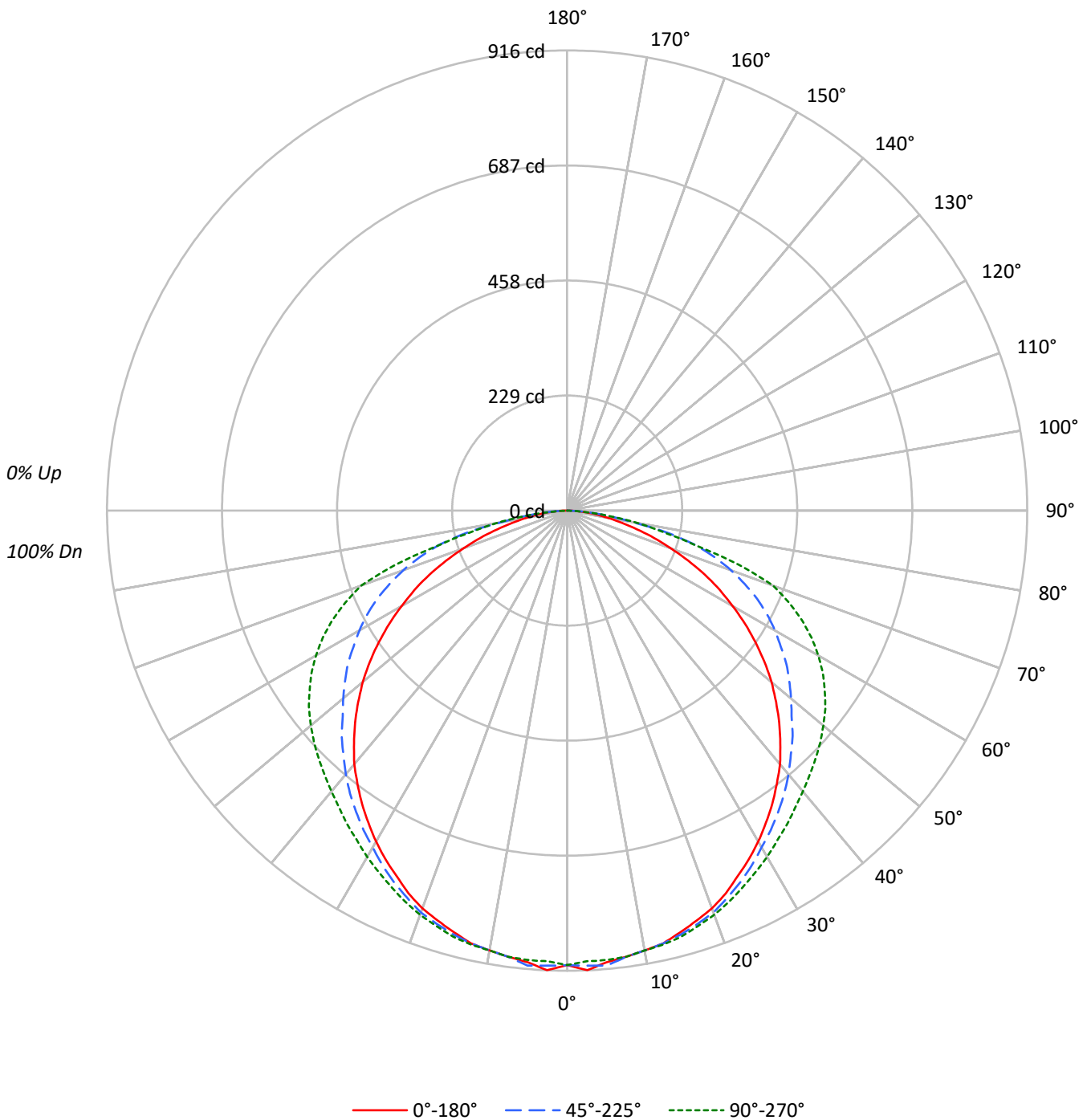
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	2434	2434	2434
5°	2438	2455	2426
10°	2429	2429	2429
15°	2422	2434	2446
20°	2413	2438	2451
25°	2384	2423	2456
30°	2364	2405	2474
35°	2340	2405	2507
40°	2315	2408	2564
45°	2273	2416	2660
50°	2222	2435	2787
55°	2148	2501	2936
60°	2047	2571	3107
65°	1929	2662	3281
70°	1723	2732	3428
75°	1495	2737	2714
80°	1268	2022	2194
85°	1093	1365	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.0
10°-20°	246.7	8.7
20°-30°	375.9	13.2
30°-40°	459.9	16.1
40°-50°	494.9	17.4
50°-60°	479.3	16.8
60°-70°	406.1	14.3
70°-80°	245.4	8.6
80°-90°	53.9	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°	708.4	24.9
0°-40°	1168.3	41.0
0°-60°	2142.6	75.2
0°-90°	2848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	902	902	909	905	898	86
15°	869	871	874	876	878	245
25°	803	807	816	823	827	371
35°	712	717	732	752	763	445
45°	597	608	635	675	699	460
55°	458	478	533	595	626	409
65°	303	336	418	484	515	298
75°	144	195	263	268	261	154
85°	35	42	44	42	40	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.6	904.6	904.6	904.6	904.6
2.5°	915.7	913.4	906.8	902.4	898.0
5°	902.4	902.4	909.0	904.6	898.0
7.5°	895.8	895.8	895.8	906.8	895.8
10°	889.1	891.3	889.1	898.0	889.1
12.5°	882.5	882.5	882.5	884.7	884.7
15°	869.2	871.4	873.6	875.8	878.1
17.5°	855.9	858.2	862.6	864.8	867.0
20°	842.7	844.9	851.5	851.5	855.9
22.5°	825.0	825.0	833.8	836.0	842.7
25°	802.9	807.3	816.1	822.8	827.2
27.5°	783.0	787.4	796.2	805.1	811.7
30°	760.8	765.3	774.1	787.4	796.2
32.5°	736.5	740.9	754.2	769.7	778.5
35°	712.2	716.6	732.1	752.0	763.0
37.5°	685.6	692.3	710.0	732.1	745.4
40°	659.1	665.7	685.6	710.0	729.9
42.5°	628.1	637.0	659.1	692.3	714.4
45°	597.2	608.2	634.8	674.6	698.9
47.5°	564.0	575.1	606.0	656.9	683.4
50°	530.8	544.1	581.7	637.0	665.7
52.5°	495.4	508.7	557.4	617.1	648.0
55°	457.8	477.7	533.0	595.0	625.9
57.5°	420.2	442.3	504.3	570.6	603.8
60°	380.4	407.0	477.7	544.1	577.3
62.5°	342.8	371.6	449.0	515.3	548.5
65°	303.0	336.2	418.0	484.4	515.3
67.5°	261.0	303.0	382.6	446.8	477.7
70°	219.0	267.6	347.2	407.0	435.7
72.5°	181.4	232.2	307.4	358.3	358.3
75°	143.8	194.6	263.2	267.6	261.0
77.5°	110.6	159.2	205.7	188.0	192.4
80°	81.8	121.6	130.5	137.1	141.6
82.5°	55.3	81.8	84.0	88.5	88.5
85°	35.4	42.0	44.2	42.0	39.8
87.5°	15.5	17.7	13.3	8.8	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)