

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: P260543

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2551.0 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

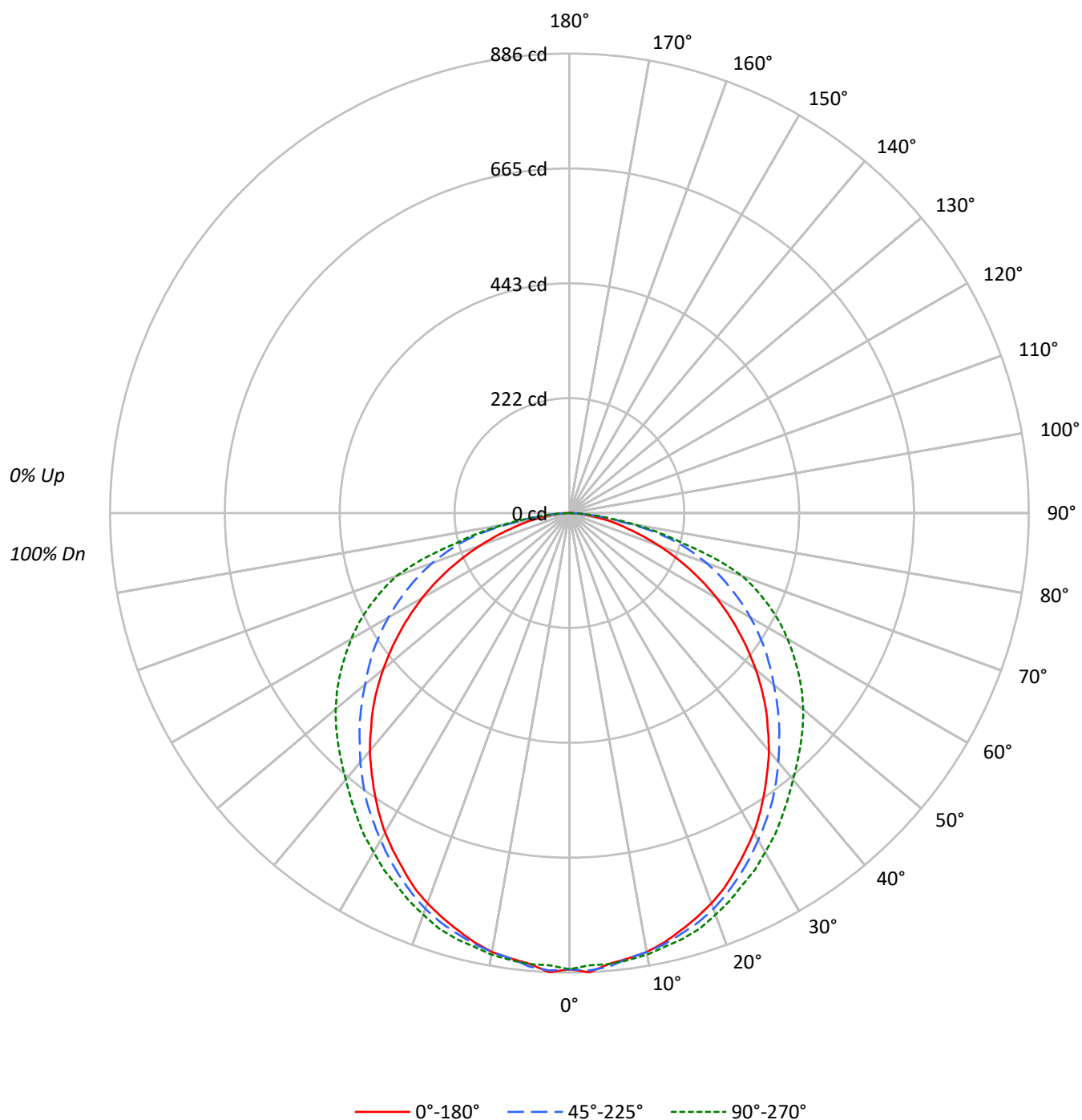
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69		
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57		
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2367	2367	2367
5°	2358	2371	2358
10°	2348	2348	2362
15°	2319	2338	2366
20°	2292	2326	2360
25°	2252	2297	2347
30°	2210	2262	2346
35°	2154	2237	2348
40°	2103	2203	2357
45°	2041	2176	2400
50°	1964	2154	2464
55°	1870	2162	2533
60°	1765	2172	2616
65°	1628	2185	2709
70°	1442	2209	2792
75°	1224	2203	2378
80°	1017	1773	1980
85°	883	1195	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.3
10°-20°	237.0	9.3
20°-30°	356.6	14.0
30°-40°	427.3	16.8
40°-50°	445.6	17.5
50°-60°	414.9	16.3
60°-70°	336.9	13.2
70°-80°	203.0	8.0
80°-90°	46.6	1.8
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°	676.7	26.5
0°-40°	1104.0	43.3
0°-60°	1964.6	77.0
0°-90°	2551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	873	873	878	880	873	83
15°	832	836	839	844	849	235
25°	758	764	774	784	790	350
35°	656	664	681	701	715	410
45°	536	546	572	609	631	413
55°	398	415	461	511	540	356
65°	256	282	343	397	426	253
75°	118	156	212	225	229	127
85°	29	35	39	37	37	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.5	879.5	879.5	879.5	879.5
2.5°	886.2	884.5	882.9	877.8	872.8
5°	872.8	872.8	877.8	879.5	872.8
7.5°	866.0	866.0	866.0	872.8	869.4
10°	859.3	859.3	859.3	864.4	864.4
12.5°	847.5	849.2	850.9	852.6	855.9
15°	832.4	835.8	839.1	844.2	849.2
17.5°	817.3	820.6	827.4	832.4	839.1
20°	800.5	803.8	812.2	817.3	824.0
22.5°	782.0	783.6	793.7	800.5	808.9
25°	758.4	763.5	773.5	783.6	790.4
27.5°	734.9	739.9	751.7	765.1	775.2
30°	711.3	716.4	728.1	745.0	755.0
32.5°	684.4	691.1	704.6	724.8	736.6
35°	655.8	664.2	681.1	701.2	714.7
37.5°	627.2	635.7	654.2	679.4	692.8
40°	598.7	607.1	627.2	654.2	671.0
42.5°	566.7	576.8	598.7	630.6	650.8
45°	536.4	546.5	571.8	608.7	630.6
47.5°	502.8	514.6	543.2	585.2	610.4
50°	469.2	482.6	514.6	561.7	588.6
52.5°	433.9	449.0	487.7	536.4	565.0
55°	398.5	415.4	460.8	511.2	539.8
57.5°	363.2	381.7	432.2	484.3	512.9
60°	327.9	348.1	403.6	457.4	486.0
62.5°	292.6	314.5	373.3	427.1	457.4
65°	255.6	282.5	343.1	396.9	425.5
67.5°	218.6	250.6	312.8	364.9	391.8
70°	183.3	218.6	280.8	329.6	354.8
72.5°	149.7	186.7	247.2	289.2	299.3
75°	117.7	156.4	211.9	225.3	228.7
77.5°	90.8	126.1	168.2	171.5	179.9
80°	65.6	95.9	114.4	124.4	127.8
82.5°	45.4	65.6	75.7	77.4	79.0
85°	28.6	35.3	38.7	37.0	37.0
87.5°	15.1	13.5	11.8	8.4	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)