

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: P263813

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2737.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

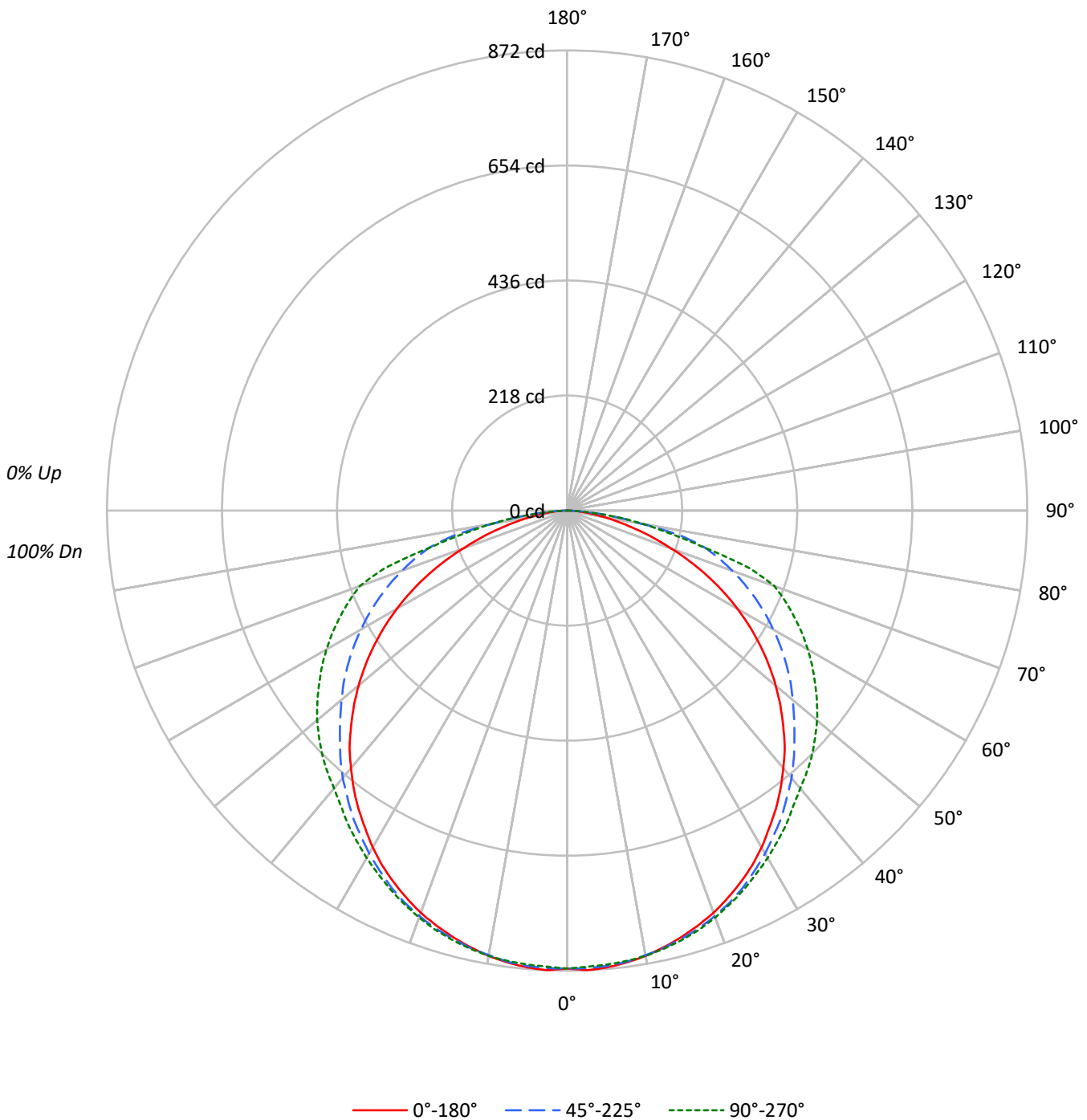
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1167	1167	1167
5°	1174	1170	1166
10°	1171	1169	1171
15°	1165	1169	1173
20°	1161	1171	1175
25°	1154	1170	1176
30°	1145	1166	1181
35°	1133	1164	1191
40°	1119	1162	1207
45°	1102	1159	1248
50°	1080	1168	1294
55°	1049	1188	1346
60°	1004	1214	1418
65°	935	1252	1510
70°	827	1309	1643
75°	693	1401	1380
80°	553	1106	1148
85°	437	749	687



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	3.0
10°-20°	236.8	8.7
20°-30°	361.8	13.2
30°-40°	442.3	16.2
40°-50°	473.4	17.3
50°-60°	454.1	16.6
60°-70°	383.4	14.0
70°-80°	245.0	9.0
80°-90°	58.0	2.1
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°	680.9	24.9
0°-40°	1123.2	41.0
0°-60°	2050.6	74.9
0°-90°	2737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	869	864	866	865	864	83
15°	837	834	839	842	842	236
25°	777	776	788	791	792	358
35°	690	695	709	718	725	431
45°	579	589	609	637	656	447
55°	447	462	507	552	574	399
65°	294	322	393	449	474	290
75°	133	190	270	275	265	144
85°	28	47	48	47	44	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.7	867.7	867.7	867.7	867.7
2.5°	871.7	866.3	867.7	867.7	865.0
5°	869.0	863.6	866.3	865.0	863.6
7.5°	863.6	859.6	862.3	862.3	860.9
10°	856.9	852.8	855.5	856.9	856.9
12.5°	847.4	844.7	848.8	848.8	850.1
15°	836.7	834.0	839.4	842.1	842.1
17.5°	824.5	823.2	829.9	831.3	832.6
20°	811.1	809.7	817.8	817.8	820.5
22.5°	794.9	793.6	804.3	804.3	807.0
25°	777.4	776.0	788.2	790.9	792.2
27.5°	758.5	757.2	769.3	773.3	776.0
30°	737.0	737.0	750.4	755.8	759.9
32.5°	712.7	716.8	728.9	737.0	742.4
35°	689.8	695.2	708.7	718.1	724.8
37.5°	664.2	669.6	684.4	696.5	704.6
40°	637.3	644.0	661.5	675.0	687.1
42.5°	610.3	617.1	635.9	656.1	672.3
45°	579.3	588.8	609.0	637.3	656.1
47.5°	548.3	557.8	583.4	618.4	637.3
50°	516.0	526.8	557.8	598.2	618.4
52.5°	482.3	494.5	533.5	576.6	596.8
55°	447.3	462.1	506.6	552.4	573.9
57.5°	410.9	427.1	479.6	528.1	551.0
60°	373.2	393.4	451.3	502.5	526.8
62.5°	334.1	358.4	423.0	475.6	501.2
65°	293.7	322.0	393.4	448.6	474.2
67.5°	251.9	289.7	363.8	421.7	447.3
70°	210.2	254.6	332.8	392.1	417.7
72.5°	171.1	222.3	301.8	357.0	362.4
75°	133.4	190.0	269.5	274.8	265.4
77.5°	99.7	157.6	222.3	198.1	196.7
80°	71.4	126.6	142.8	146.9	148.2
82.5°	47.2	95.7	93.0	95.7	94.3
85°	28.3	47.2	48.5	47.2	44.5
87.5°	13.5	17.5	13.5	12.1	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)