

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: P263660

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263660
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-LD5-40-RDP-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2597.0 lumens
Efficiency: N/A
Efficacy: 91.9 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

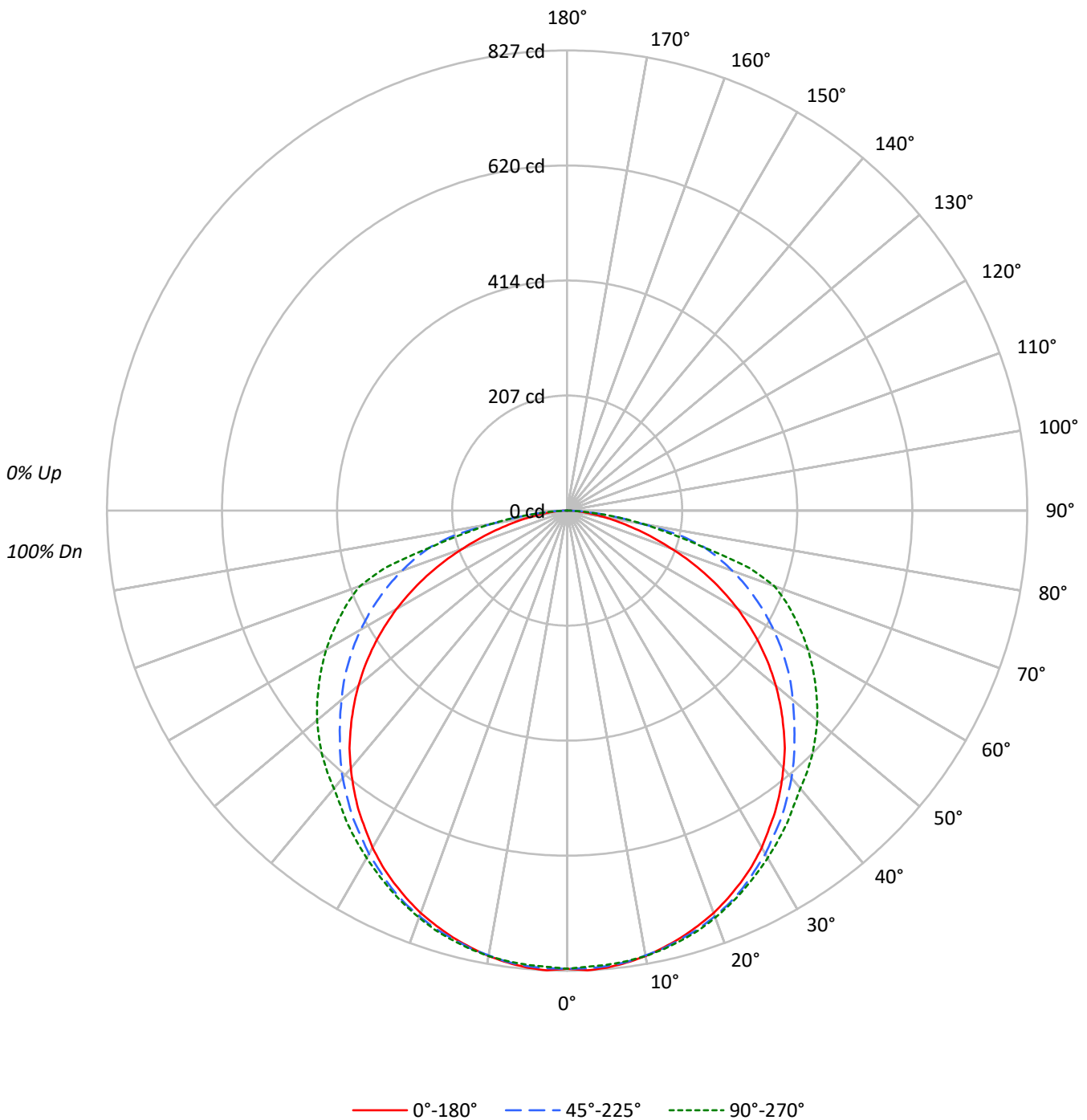
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	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°	1108	1108	1108
5°	1114	1110	1107
10°	1111	1109	1111
15°	1106	1109	1113
20°	1102	1111	1115
25°	1095	1110	1116
30°	1086	1106	1120
35°	1075	1104	1130
40°	1062	1102	1145
45°	1046	1099	1185
50°	1025	1108	1228
55°	996	1128	1278
60°	953	1153	1345
65°	887	1188	1433
70°	784	1242	1559
75°	658	1329	1309
80°	525	1050	1089
85°	414	710	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.0
10°-20°	224.7	8.7
20°-30°	343.2	13.2
30°-40°	419.7	16.2
40°-50°	449.2	17.3
50°-60°	430.8	16.6
60°-70°	363.8	14.0
70°-80°	232.5	9.0
80°-90°	55.0	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°	646.1	24.9
0°-40°	1065.7	41.0
0°-60°	1945.7	74.9
0°-90°	2597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2597.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	824	819	822	821	819	78
15°	794	791	796	799	799	224
25°	738	736	748	750	752	340
35°	654	660	672	681	688	409
45°	550	559	578	605	623	424
55°	424	438	481	524	545	379
65°	279	306	373	426	450	275
75°	127	180	256	261	252	136
85°	27	45	46	45	42	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.3	823.3	823.3	823.3	823.3
2.5°	827.1	822.0	823.3	823.3	820.7
5°	824.5	819.4	822.0	820.7	819.4
7.5°	819.4	815.6	818.2	818.2	816.9
10°	813.0	809.2	811.8	813.0	813.0
12.5°	804.1	801.5	805.4	805.4	806.7
15°	793.9	791.3	796.4	799.0	799.0
17.5°	782.4	781.1	787.5	788.8	790.0
20°	769.6	768.3	776.0	776.0	778.5
22.5°	754.2	753.0	763.2	763.2	765.7
25°	737.6	736.3	747.8	750.4	751.7
27.5°	719.7	718.4	729.9	733.8	736.3
30°	699.3	699.3	712.1	717.2	721.0
32.5°	676.3	680.1	691.6	699.3	704.4
35°	654.5	659.6	672.4	681.4	687.8
37.5°	630.2	635.4	649.4	660.9	668.6
40°	604.7	611.1	627.7	640.5	652.0
42.5°	579.1	585.5	603.4	622.6	637.9
45°	549.7	558.6	577.8	604.7	622.6
47.5°	520.3	529.2	553.5	586.8	604.7
50°	489.6	499.8	529.2	567.6	586.8
52.5°	457.7	469.2	506.2	547.1	566.3
55°	424.4	438.5	480.7	524.1	544.6
57.5°	389.9	405.2	455.1	501.1	522.9
60°	354.1	373.3	428.3	476.8	499.8
62.5°	317.0	340.0	401.4	451.3	475.6
65°	278.7	305.5	373.3	425.7	450.0
67.5°	239.1	274.8	345.2	400.1	424.4
70°	199.4	241.6	315.8	372.0	396.3
72.5°	162.4	210.9	286.4	338.8	343.9
75°	126.6	180.3	255.7	260.8	251.8
77.5°	94.6	149.6	210.9	187.9	186.6
80°	67.8	120.2	135.5	139.3	140.6
82.5°	44.7	90.8	88.2	90.8	89.5
85°	26.8	44.7	46.0	44.7	42.2
87.5°	12.8	16.6	12.8	11.5	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)