

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: P263800

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263800
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-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2617.0 lumens
Efficiency: N/A
Efficacy: 90.5 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

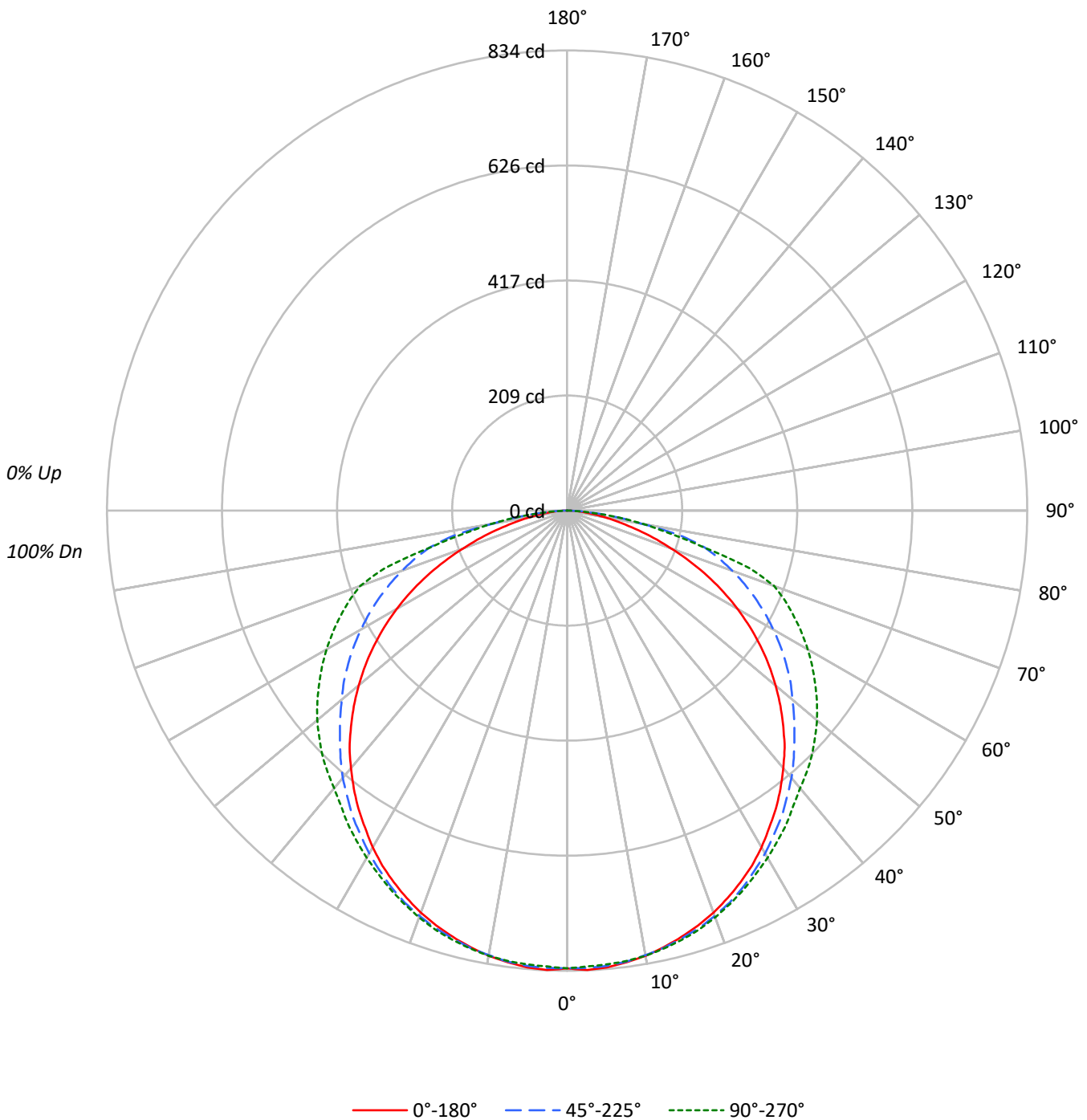
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	55	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°	1116	1116	1116
5°	1122	1119	1115
10°	1119	1118	1119
15°	1114	1118	1121
20°	1110	1120	1123
25°	1103	1119	1125
30°	1095	1115	1129
35°	1083	1113	1138
40°	1070	1111	1154
45°	1054	1108	1194
50°	1033	1116	1238
55°	1003	1136	1287
60°	960	1161	1355
65°	894	1198	1444
70°	791	1252	1571
75°	663	1339	1319
80°	529	1058	1098
85°	418	716	656



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	3.0
10°-20°	226.5	8.7
20°-30°	345.9	13.2
30°-40°	422.9	16.2
40°-50°	452.6	17.3
50°-60°	434.2	16.6
60°-70°	366.6	14.0
70°-80°	234.3	9.0
80°-90°	55.4	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°	651.0	24.9
0°-40°	1073.9	41.0
0°-60°	1960.7	74.9
0°-90°	2617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	831	826	828	827	826	79
15°	800	797	803	805	805	226
25°	743	742	754	756	758	343
35°	660	665	678	687	693	412
45°	554	563	582	609	627	427
55°	428	442	484	528	549	382
65°	281	308	376	429	454	277
75°	128	182	258	263	254	137
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°	829.6	829.6	829.6	829.6	829.6
2.5°	833.5	828.3	829.6	829.6	827.0
5°	830.9	825.7	828.3	827.0	825.7
7.5°	825.7	821.9	824.5	824.5	823.2
10°	819.3	815.4	818.0	819.3	819.3
12.5°	810.3	807.7	811.6	811.6	812.9
15°	800.0	797.4	802.6	805.1	805.1
17.5°	788.4	787.1	793.5	794.8	796.1
20°	775.5	774.2	781.9	781.9	784.5
22.5°	760.0	758.8	769.1	769.1	771.6
25°	743.3	742.0	753.6	756.2	757.5
27.5°	725.3	724.0	735.6	739.4	742.0
30°	704.7	704.7	717.5	722.7	726.6
32.5°	681.5	685.3	696.9	704.7	709.8
35°	659.6	664.7	677.6	686.6	693.1
37.5°	635.1	640.2	654.4	666.0	673.7
40°	609.3	615.8	632.5	645.4	657.0
42.5°	583.6	590.0	608.0	627.4	642.8
45°	553.9	563.0	582.3	609.3	627.4
47.5°	524.3	533.3	557.8	591.3	609.3
50°	493.4	503.7	533.3	572.0	591.3
52.5°	461.2	472.8	510.1	551.4	570.7
55°	427.7	441.9	484.4	528.2	548.8
57.5°	392.9	408.4	458.6	505.0	526.9
60°	356.8	376.2	431.6	480.5	503.7
62.5°	319.5	342.7	404.5	454.7	479.2
65°	280.8	307.9	376.2	429.0	453.5
67.5°	240.9	277.0	347.8	403.2	427.7
70°	201.0	243.5	318.2	374.9	399.3
72.5°	163.6	212.6	288.6	341.4	346.5
75°	127.5	181.6	257.6	262.8	253.8
77.5°	95.3	150.7	212.6	189.4	188.1
80°	68.3	121.1	136.6	140.4	141.7
82.5°	45.1	91.5	88.9	91.5	90.2
85°	27.1	45.1	46.4	45.1	42.5
87.5°	12.9	16.7	12.9	11.6	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)