

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: P263801

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263801
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2657.0 lumens
Efficiency: N/A
Efficacy: 91.3 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

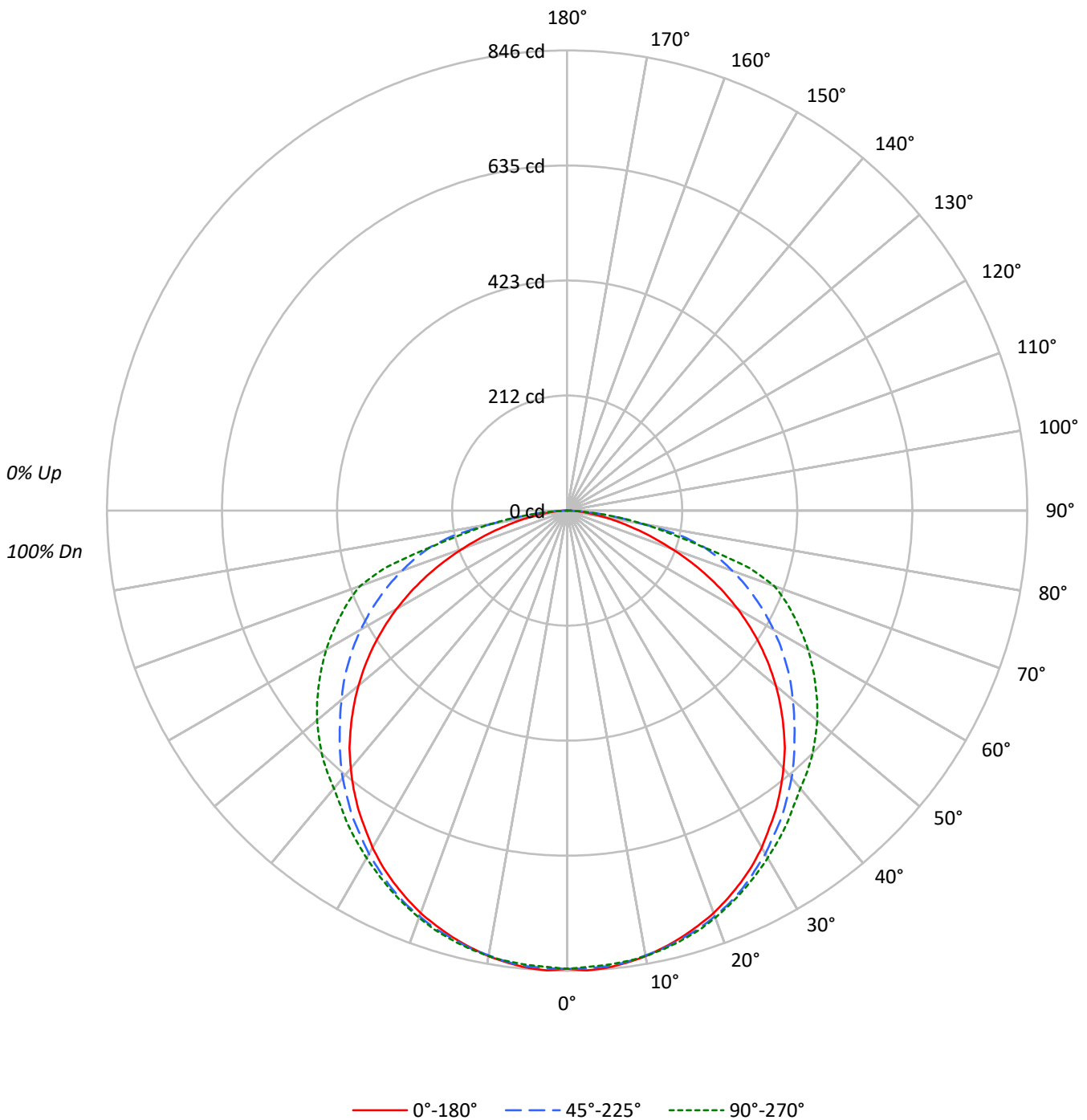
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1133	1133	1133
5°	1139	1136	1132
10°	1136	1135	1136
15°	1131	1135	1139
20°	1127	1137	1140
25°	1120	1136	1142
30°	1111	1132	1146
35°	1100	1130	1156
40°	1087	1128	1172
45°	1070	1125	1212
50°	1048	1133	1257
55°	1019	1154	1307
60°	975	1179	1376
65°	908	1216	1466
70°	803	1271	1595
75°	673	1360	1340
80°	537	1074	1115
85°	425	727	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	3.0
10°-20°	229.9	8.7
20°-30°	351.2	13.2
30°-40°	429.3	16.2
40°-50°	459.6	17.3
50°-60°	440.8	16.6
60°-70°	372.2	14.0
70°-80°	237.9	9.0
80°-90°	56.3	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°	661.0	24.9
0°-40°	1090.3	41.0
0°-60°	1990.7	74.9
0°-90°	2657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	844	838	841	840	838	80
15°	812	810	815	817	817	229
25°	755	753	765	768	769	348
35°	670	675	688	697	704	419
45°	562	572	591	619	637	434
55°	434	449	492	536	557	387
65°	285	313	382	436	460	281
75°	130	184	262	267	258	139
85°	28	46	47	46	43	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.3	842.3	842.3	842.3	842.3
2.5°	846.2	841.0	842.3	842.3	839.7
5°	843.6	838.4	841.0	839.7	838.4
7.5°	838.4	834.4	837.1	837.1	835.8
10°	831.8	827.9	830.5	831.8	831.8
12.5°	822.7	820.1	824.0	824.0	825.3
15°	812.2	809.6	814.8	817.4	817.4
17.5°	800.4	799.1	805.7	807.0	808.3
20°	787.4	786.1	793.9	793.9	796.5
22.5°	771.7	770.4	780.8	780.8	783.4
25°	754.7	753.4	765.1	767.7	769.0
27.5°	736.4	735.0	746.8	750.7	753.4
30°	715.4	715.4	728.5	733.7	737.7
32.5°	691.9	695.8	707.6	715.4	720.7
35°	669.6	674.9	688.0	697.1	703.7
37.5°	644.8	650.0	664.4	676.2	684.0
40°	618.6	625.2	642.2	655.3	667.0
42.5°	592.5	599.0	617.3	637.0	652.6
45°	562.4	571.6	591.2	618.6	637.0
47.5°	532.3	541.5	566.3	600.3	618.6
50°	500.9	511.4	541.5	580.7	600.3
52.5°	468.2	480.0	517.9	559.8	579.4
55°	434.2	448.6	491.8	536.2	557.2
57.5°	398.9	414.6	465.6	512.7	534.9
60°	362.3	381.9	438.1	487.8	511.4
62.5°	324.4	347.9	410.7	461.7	486.5
65°	285.1	312.6	381.9	435.5	460.4
67.5°	244.6	281.2	353.1	409.4	434.2
70°	204.0	247.2	323.1	380.6	405.5
72.5°	166.1	215.8	293.0	346.6	351.8
75°	129.5	184.4	261.6	266.8	257.7
77.5°	96.8	153.0	215.8	192.3	191.0
80°	69.3	122.9	138.6	142.6	143.9
82.5°	45.8	92.9	90.2	92.9	91.6
85°	27.5	45.8	47.1	45.8	43.2
87.5°	13.1	17.0	13.1	11.8	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)