

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: P263751

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263751
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-LD5-40SE-RDP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2656.0 lumens
Efficiency: N/A
Efficacy: 87.9 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

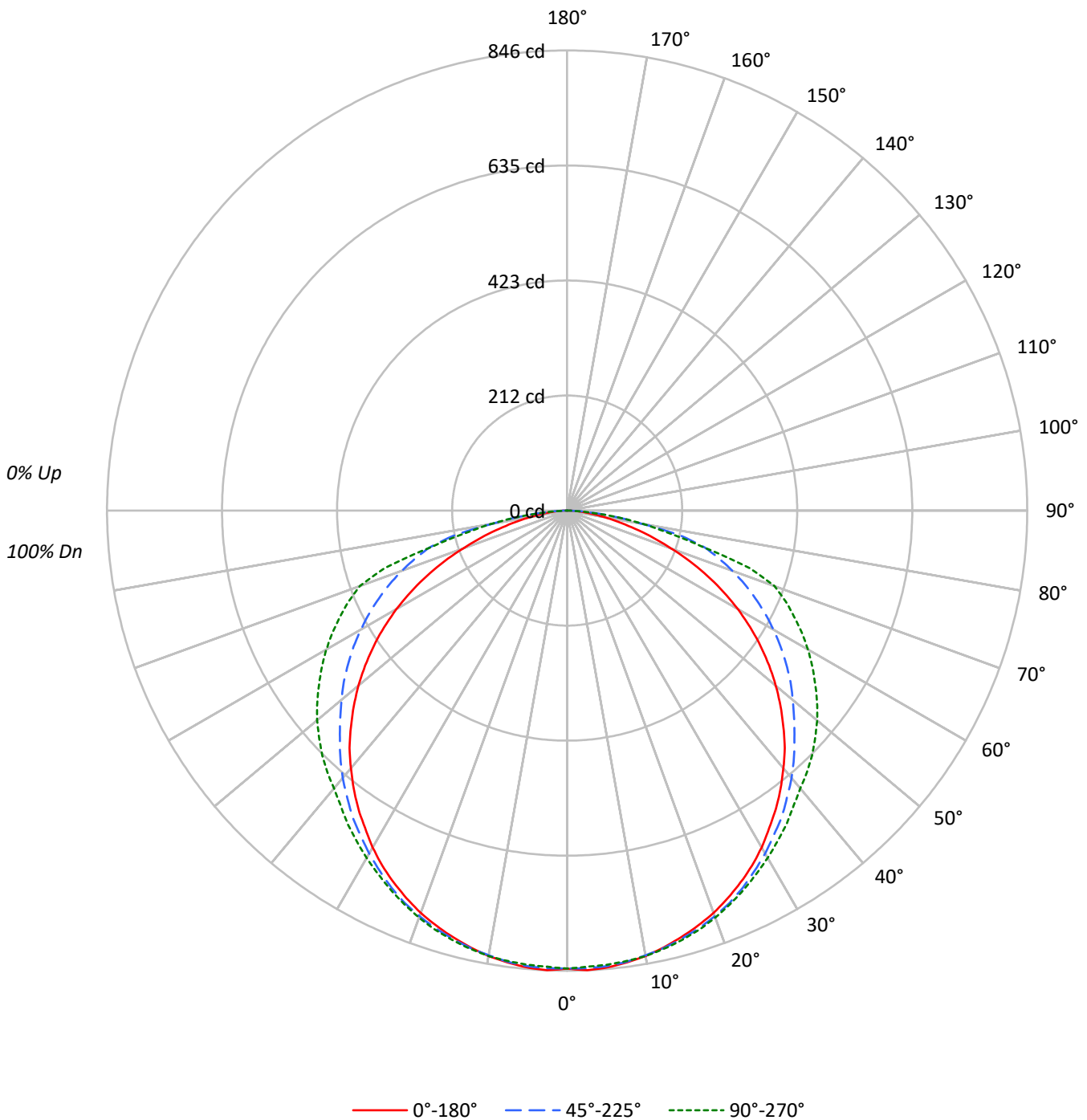
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	1135	1132
10°	1136	1134	1136
15°	1131	1135	1138
20°	1127	1136	1140
25°	1120	1135	1141
30°	1111	1131	1146
35°	1100	1130	1155
40°	1086	1127	1171
45°	1070	1125	1212
50°	1048	1133	1256
55°	1018	1153	1307
60°	975	1179	1376
65°	907	1216	1465
70°	803	1270	1594
75°	673	1359	1339
80°	537	1074	1114
85°	425	727	665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	3.0
10°-20°	229.8	8.7
20°-30°	351.1	13.2
30°-40°	429.2	16.2
40°-50°	459.4	17.3
50°-60°	440.6	16.6
60°-70°	372.1	14.0
70°-80°	237.8	9.0
80°-90°	56.2	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°	660.7	24.9
0°-40°	1089.9	41.0
0°-60°	1989.9	74.9
0°-90°	2656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	843	838	841	839	838	80
15°	812	809	814	817	817	229
25°	754	753	765	768	769	348
35°	669	675	688	697	703	419
45°	562	571	591	618	637	434
55°	434	448	492	536	557	387
65°	285	312	382	435	460	281
75°	129	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°	842.0	842.0	842.0	842.0	842.0
2.5°	845.9	840.7	842.0	842.0	839.4
5°	843.3	838.1	840.7	839.4	838.1
7.5°	838.1	834.1	836.7	836.7	835.4
10°	831.5	827.6	830.2	831.5	831.5
12.5°	822.4	819.7	823.7	823.7	825.0
15°	811.9	809.3	814.5	817.1	817.1
17.5°	800.1	798.8	805.4	806.7	808.0
20°	787.1	785.8	793.6	793.6	796.2
22.5°	771.4	770.1	780.5	780.5	783.1
25°	754.4	753.1	764.8	767.5	768.8
27.5°	736.1	734.8	746.5	750.5	753.1
30°	715.2	715.2	728.2	733.5	737.4
32.5°	691.6	695.5	707.3	715.2	720.4
35°	669.4	674.6	687.7	696.9	703.4
37.5°	644.6	649.8	664.2	675.9	683.8
40°	618.4	624.9	641.9	655.0	666.8
42.5°	592.3	598.8	617.1	636.7	652.4
45°	562.2	571.3	591.0	618.4	636.7
47.5°	532.1	541.3	566.1	600.1	618.4
50°	500.7	511.2	541.3	580.5	600.1
52.5°	468.1	479.8	517.7	559.6	579.2
55°	434.1	448.4	491.6	536.0	557.0
57.5°	398.8	414.5	465.4	512.5	534.7
60°	362.2	381.8	438.0	487.7	511.2
62.5°	324.2	347.8	410.5	461.5	486.4
65°	285.0	312.5	381.8	435.4	460.2
67.5°	244.5	281.1	353.0	409.2	434.1
70°	204.0	247.1	322.9	380.5	405.3
72.5°	166.0	215.7	292.9	346.5	351.7
75°	129.4	184.3	261.5	266.7	257.6
77.5°	96.7	153.0	215.7	192.2	190.9
80°	69.3	122.9	138.6	142.5	143.8
82.5°	45.8	92.8	90.2	92.8	91.5
85°	27.5	45.8	47.1	45.8	43.1
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)