

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: P263552

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263552
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-L83050-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: 2659.0 lumens
Efficiency: N/A
Efficacy: 87.6 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

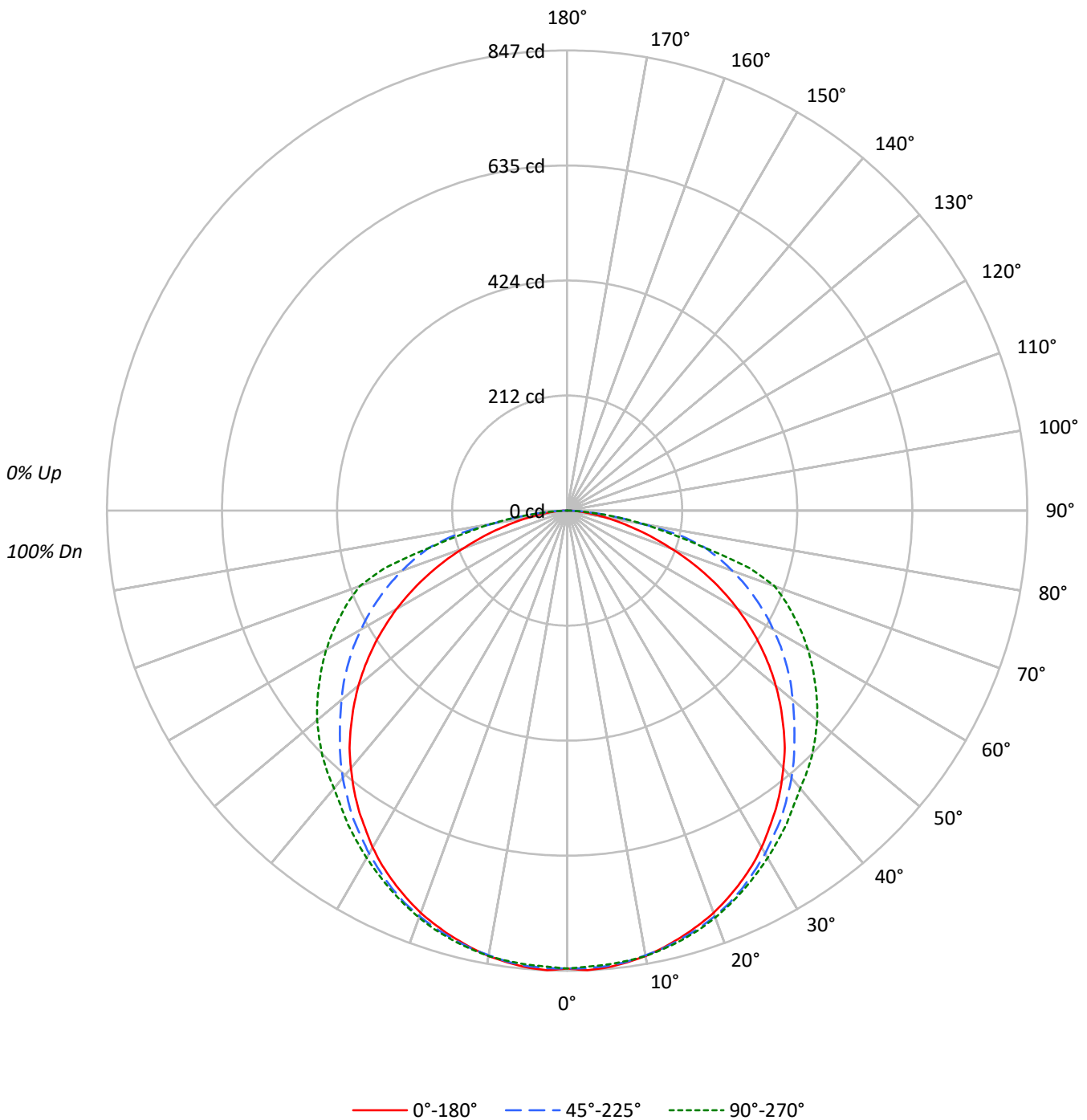
Input Watts (W): 30.350178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1134	1134	1134
5°	1140	1137	1133
10°	1137	1135	1137
15°	1132	1136	1140
20°	1128	1138	1141
25°	1121	1137	1143
30°	1112	1133	1147
35°	1101	1131	1157
40°	1087	1129	1172
45°	1071	1126	1213
50°	1049	1134	1258
55°	1019	1154	1308
60°	976	1180	1377
65°	908	1217	1467
70°	803	1272	1596
75°	674	1361	1341
80°	538	1075	1116
85°	425	727	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	3.0
10°-20°	230.1	8.7
20°-30°	351.4	13.2
30°-40°	429.7	16.2
40°-50°	459.9	17.3
50°-60°	441.1	16.6
60°-70°	372.5	14.0
70°-80°	238.1	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°	661.5	24.9
0°-40°	1091.1	41.0
0°-60°	1992.2	74.9
0°-90°	2659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	844	839	842	840	839	80
15°	813	810	815	818	818	229
25°	755	754	766	768	770	348
35°	670	675	688	698	704	419
45°	563	572	592	619	637	434
55°	435	449	492	537	558	388
65°	285	313	382	436	461	281
75°	130	185	262	267	258	140
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°	842.9	842.9	842.9	842.9	842.9
2.5°	846.9	841.6	842.9	842.9	840.3
5°	844.2	839.0	841.6	840.3	839.0
7.5°	839.0	835.1	837.7	837.7	836.4
10°	832.5	828.5	831.1	832.5	832.5
12.5°	823.3	820.7	824.6	824.6	825.9
15°	812.8	810.2	815.4	818.1	818.1
17.5°	801.0	799.7	806.3	807.6	808.9
20°	788.0	786.6	794.5	794.5	797.1
22.5°	772.2	770.9	781.4	781.4	784.0
25°	755.2	753.9	765.7	768.3	769.6
27.5°	736.9	735.6	747.4	751.3	753.9
30°	716.0	716.0	729.1	734.3	738.2
32.5°	692.4	696.3	708.1	716.0	721.2
35°	670.2	675.4	688.5	697.6	704.2
37.5°	645.3	650.5	664.9	676.7	684.5
40°	619.1	625.6	642.7	655.8	667.5
42.5°	592.9	599.5	617.8	637.4	653.1
45°	562.8	572.0	591.6	619.1	637.4
47.5°	532.7	541.9	566.7	600.8	619.1
50°	501.3	511.8	541.9	581.1	600.8
52.5°	468.6	480.4	518.3	560.2	579.8
55°	434.6	448.9	492.1	536.6	557.6
57.5°	399.2	414.9	466.0	513.1	535.3
60°	362.6	382.2	438.5	488.2	511.8
62.5°	324.6	348.2	411.0	462.0	486.9
65°	285.3	312.8	382.2	435.9	460.7
67.5°	244.8	281.4	353.4	409.7	434.6
70°	204.2	247.4	323.3	380.9	405.8
72.5°	166.2	216.0	293.2	346.9	352.1
75°	129.6	184.6	261.8	267.0	257.9
77.5°	96.9	153.1	216.0	192.4	191.1
80°	69.4	123.0	138.7	142.7	144.0
82.5°	45.8	92.9	90.3	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)