

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: P263892

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263892
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-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2652.0 lumens
Efficiency: N/A
Efficacy: 84.6 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

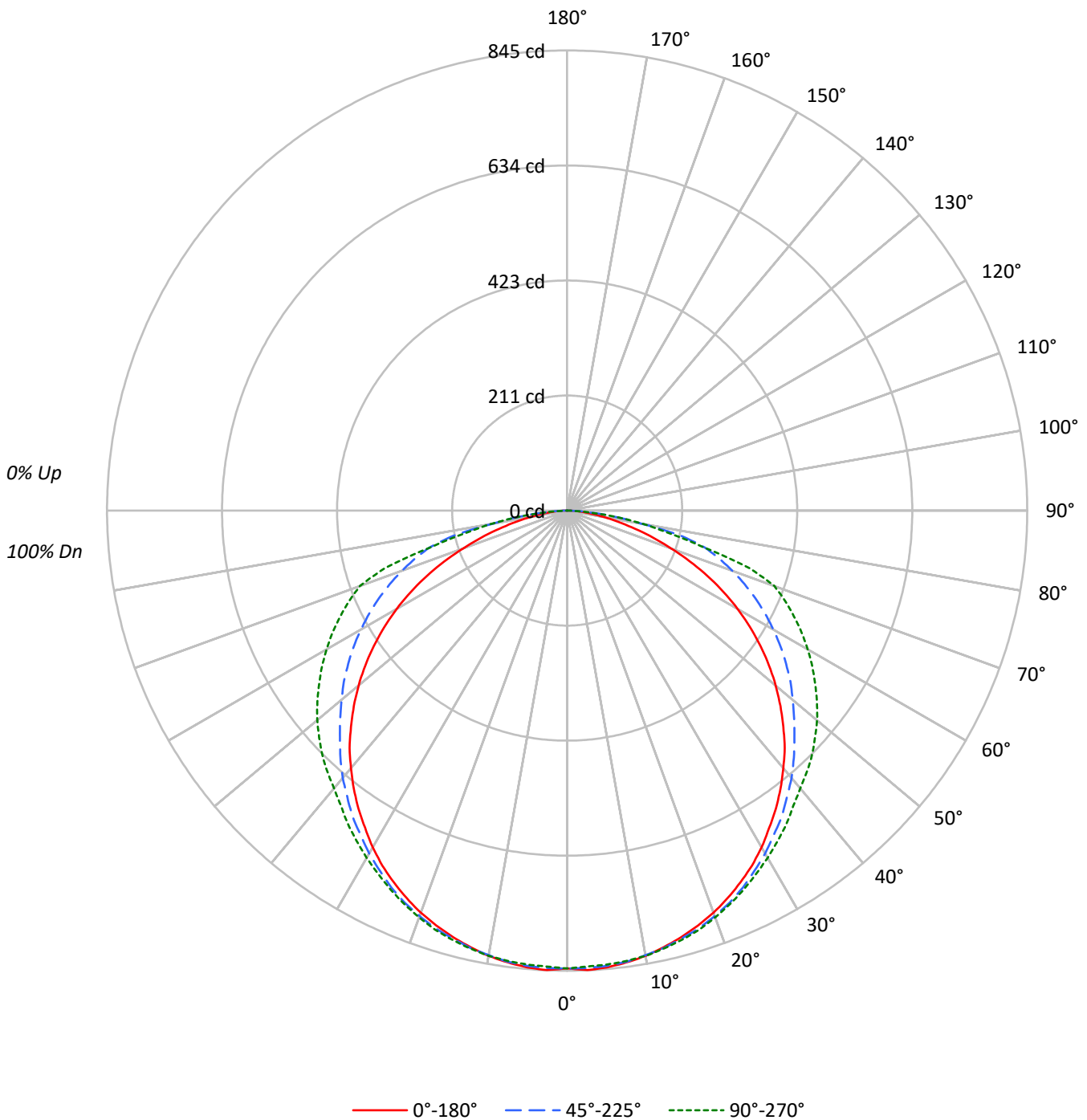
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1131	1131	1131
5°	1137	1134	1130
10°	1134	1133	1134
15°	1129	1133	1137
20°	1125	1135	1138
25°	1118	1134	1140
30°	1109	1130	1144
35°	1098	1128	1154
40°	1085	1126	1169
45°	1068	1123	1210
50°	1047	1131	1254
55°	1017	1151	1304
60°	973	1177	1373
65°	906	1214	1463
70°	801	1268	1592
75°	672	1357	1337
80°	536	1072	1113
85°	423	726	665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	3.0
10°-20°	229.5	8.7
20°-30°	350.5	13.2
30°-40°	428.5	16.2
40°-50°	458.7	17.3
50°-60°	440.0	16.6
60°-70°	371.5	14.0
70°-80°	237.4	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°	659.7	24.9
0°-40°	1088.3	41.0
0°-60°	1987.0	74.9
0°-90°	2652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	842	837	839	838	837	80
15°	811	808	813	816	816	229
25°	753	752	764	766	768	347
35°	668	674	687	696	702	418
45°	561	570	590	618	636	433
55°	433	448	491	535	556	387
65°	285	312	381	435	460	281
75°	129	184	261	266	257	139
85°	27	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°	840.7	840.7	840.7	840.7	840.7
2.5°	844.6	839.4	840.7	840.7	838.1
5°	842.0	836.8	839.4	838.1	836.8
7.5°	836.8	832.9	835.5	835.5	834.2
10°	830.3	826.3	829.0	830.3	830.3
12.5°	821.1	818.5	822.4	822.4	823.7
15°	810.7	808.1	813.3	815.9	815.9
17.5°	798.9	797.6	804.2	805.5	806.8
20°	785.9	784.6	792.4	792.4	795.0
22.5°	770.2	768.9	779.4	779.4	782.0
25°	753.2	751.9	763.7	766.3	767.6
27.5°	735.0	733.7	745.4	749.3	751.9
30°	714.1	714.1	727.1	732.4	736.3
32.5°	690.6	694.5	706.2	714.1	719.3
35°	668.4	673.6	686.7	695.8	702.3
37.5°	643.6	648.8	663.2	674.9	682.7
40°	617.5	624.0	641.0	654.0	665.8
42.5°	591.4	597.9	616.2	635.8	651.4
45°	561.3	570.5	590.1	617.5	635.8
47.5°	531.3	540.5	565.3	599.2	617.5
50°	500.0	510.4	540.5	579.6	599.2
52.5°	467.3	479.1	517.0	558.7	578.3
55°	433.4	447.8	490.8	535.2	556.1
57.5°	398.2	413.8	464.7	511.7	533.9
60°	361.6	381.2	437.3	486.9	510.4
62.5°	323.8	347.2	409.9	460.8	485.6
65°	284.6	312.0	381.2	434.7	459.5
67.5°	244.1	280.7	352.5	408.6	433.4
70°	203.6	246.7	322.4	379.9	404.7
72.5°	165.8	215.4	292.4	345.9	351.2
75°	129.2	184.1	261.1	266.3	257.2
77.5°	96.6	152.7	215.4	191.9	190.6
80°	69.2	122.7	138.4	142.3	143.6
82.5°	45.7	92.7	90.1	92.7	91.4
85°	27.4	45.7	47.0	45.7	43.1
87.5°	13.1	17.0	13.1	11.7	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)