

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: P263551

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263551
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-LD5-35SE-RDP-UNV-L83050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2620.0 lumens
Efficiency: N/A
Efficacy: 95.9 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

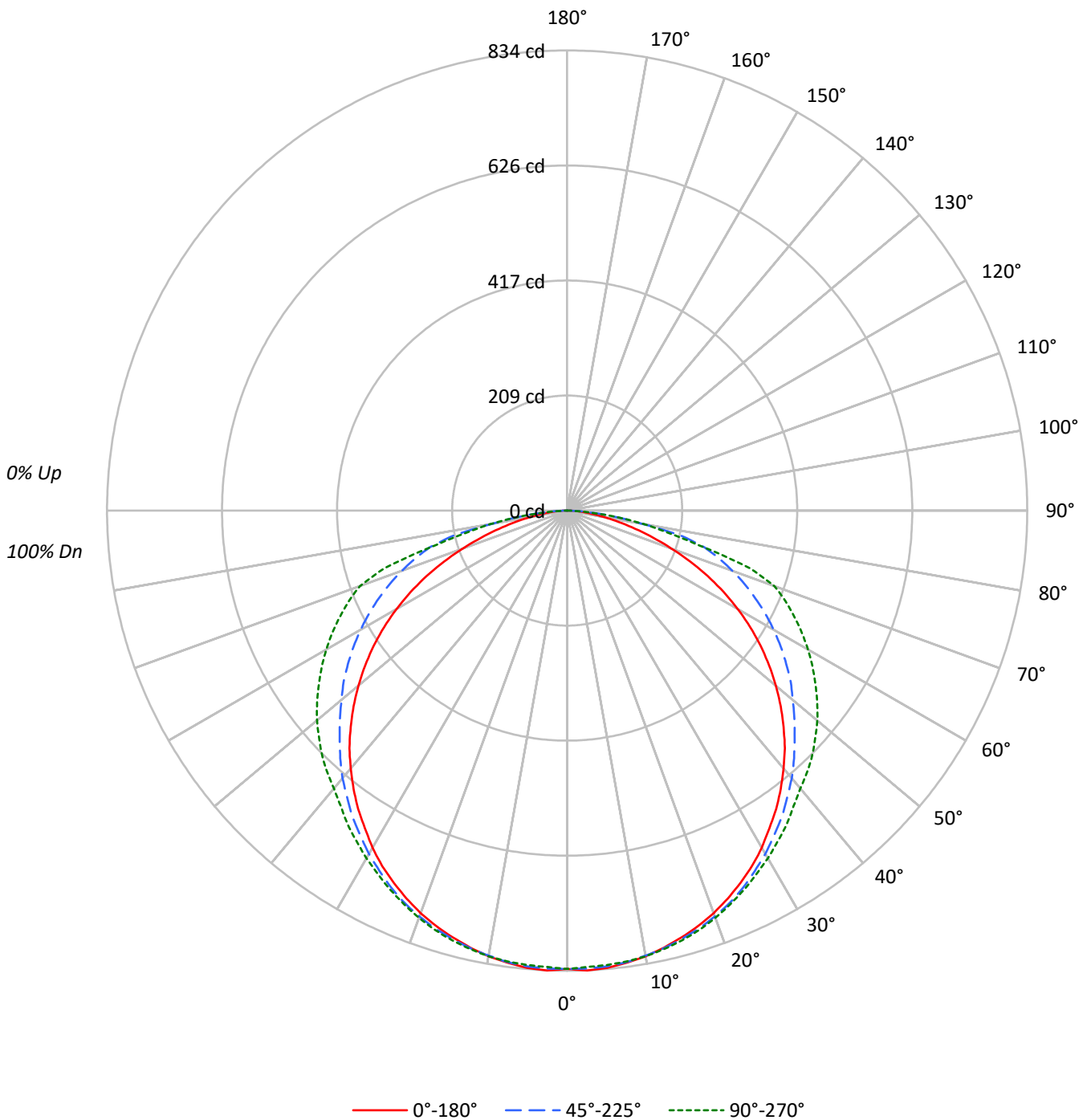
Input Watts (W): 27.31596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1118	1118	1118
5°	1124	1120	1117
10°	1121	1119	1121
15°	1116	1119	1123
20°	1112	1121	1125
25°	1105	1120	1126
30°	1096	1116	1130
35°	1085	1114	1140
40°	1071	1112	1155
45°	1055	1109	1195
50°	1034	1118	1239
55°	1004	1137	1289
60°	961	1163	1357
65°	895	1199	1445
70°	792	1253	1573
75°	664	1341	1321
80°	530	1059	1099
85°	418	716	658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.0
10°-20°	226.7	8.7
20°-30°	346.3	13.2
30°-40°	423.4	16.2
40°-50°	453.2	17.3
50°-60°	434.7	16.6
60°-70°	367.0	14.0
70°-80°	234.6	9.0
80°-90°	55.5	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°	651.8	24.9
0°-40°	1075.1	41.0
0°-60°	1963.0	74.9
0°-90°	2620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	832	827	829	828	827	79
15°	801	798	804	806	806	226
25°	744	743	754	757	758	343
35°	660	666	678	687	694	413
45°	555	564	583	610	628	428
55°	428	442	485	529	549	382
65°	281	308	377	430	454	277
75°	128	182	258	263	254	137
85°	27	45	46	45	43	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.6	830.6	830.6	830.6	830.6
2.5°	834.4	829.3	830.6	830.6	828.0
5°	831.9	826.7	829.3	828.0	826.7
7.5°	826.7	822.8	825.4	825.4	824.1
10°	820.2	816.4	819.0	820.2	820.2
12.5°	811.2	808.6	812.5	812.5	813.8
15°	800.9	798.3	803.5	806.1	806.1
17.5°	789.3	788.0	794.5	795.7	797.0
20°	776.4	775.1	782.8	782.8	785.4
22.5°	760.9	759.6	769.9	769.9	772.5
25°	744.2	742.9	754.5	757.0	758.3
27.5°	726.1	724.8	736.4	740.3	742.9
30°	705.5	705.5	718.4	723.5	727.4
32.5°	682.2	686.1	697.7	705.5	710.6
35°	660.3	665.5	678.4	687.4	693.9
37.5°	635.8	641.0	655.2	666.8	674.5
40°	610.0	616.5	633.2	646.1	657.7
42.5°	584.2	590.7	608.7	628.1	643.6
45°	554.6	563.6	582.9	610.0	628.1
47.5°	524.9	533.9	558.4	592.0	610.0
50°	494.0	504.3	533.9	572.6	592.0
52.5°	461.7	473.3	510.7	552.0	571.3
55°	428.2	442.4	484.9	528.8	549.4
57.5°	393.4	408.8	459.1	505.6	527.5
60°	357.2	376.6	432.0	481.1	504.3
62.5°	319.8	343.1	405.0	455.3	479.8
65°	281.2	308.2	376.6	429.5	454.0
67.5°	241.2	277.3	348.2	403.7	428.2
70°	201.2	243.8	318.6	375.3	399.8
72.5°	163.8	212.8	288.9	341.8	346.9
75°	127.7	181.8	257.9	263.1	254.1
77.5°	95.4	150.9	212.8	189.6	188.3
80°	68.4	121.2	136.7	140.6	141.9
82.5°	45.1	91.6	89.0	91.6	90.3
85°	27.1	45.1	46.4	45.1	42.6
87.5°	12.9	16.8	12.9	11.6	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)