

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: P263798

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263798
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2500.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

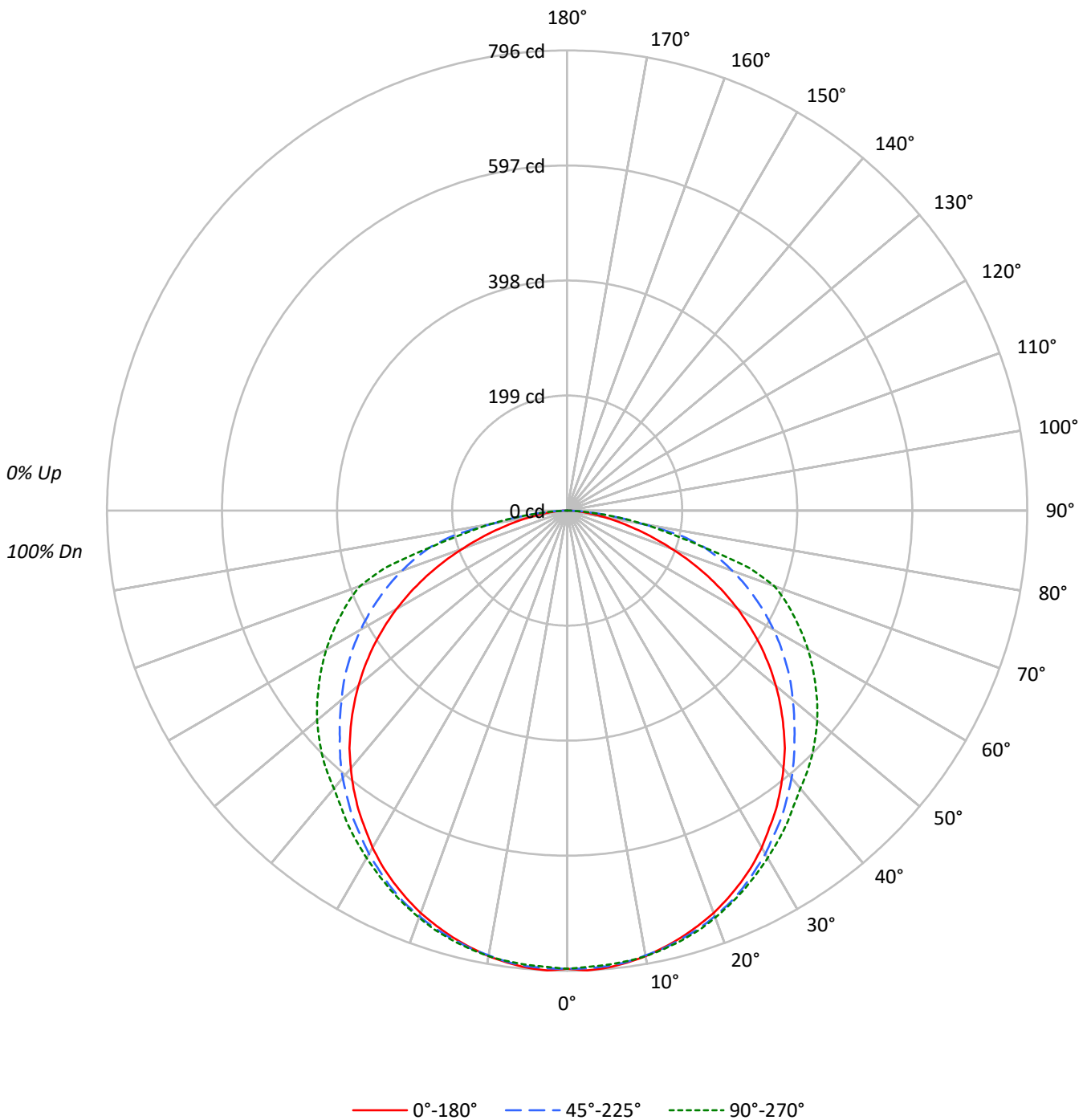
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1066	1066	1066
5°	1072	1069	1065
10°	1069	1068	1069
15°	1064	1068	1071
20°	1061	1070	1073
25°	1054	1069	1074
30°	1046	1065	1078
35°	1035	1063	1088
40°	1022	1061	1102
45°	1007	1058	1140
50°	987	1066	1182
55°	958	1085	1230
60°	917	1109	1295
65°	854	1144	1379
70°	755	1196	1501
75°	633	1279	1260
80°	505	1010	1049
85°	398	684	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	3.0
10°-20°	216.3	8.7
20°-30°	330.4	13.2
30°-40°	404.0	16.2
40°-50°	432.4	17.3
50°-60°	414.8	16.6
60°-70°	350.2	14.0
70°-80°	223.8	9.0
80°-90°	52.9	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°	621.9	24.9
0°-40°	1025.9	41.0
0°-60°	1873.1	74.9
0°-90°	2500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	794	789	791	790	789	75
15°	764	762	767	769	769	216
25°	710	709	720	722	724	327
35°	630	635	647	656	662	394
45°	529	538	556	582	599	408
55°	409	422	463	505	524	365
65°	268	294	359	410	433	265
75°	122	174	246	251	242	131
85°	26	43	44	43	41	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	792.5	792.5	792.5	792.5	792.5
2.5°	796.2	791.3	792.5	792.5	790.1
5°	793.8	788.8	791.3	790.1	788.8
7.5°	788.8	785.1	787.6	787.6	786.4
10°	782.7	779.0	781.4	782.7	782.7
12.5°	774.1	771.6	775.3	775.3	776.5
15°	764.2	761.8	766.7	769.1	769.1
17.5°	753.1	751.9	758.1	759.3	760.5
20°	740.8	739.6	747.0	747.0	749.4
22.5°	726.1	724.8	734.7	734.7	737.1
25°	710.1	708.8	719.9	722.4	723.6
27.5°	692.8	691.6	702.7	706.4	708.8
30°	673.2	673.2	685.5	690.4	694.1
32.5°	651.0	654.7	665.8	673.2	678.1
35°	630.1	635.0	647.3	655.9	662.1
37.5°	606.7	611.6	625.2	636.2	643.6
40°	582.1	588.2	604.2	616.5	627.6
42.5°	557.5	563.6	580.9	599.3	614.1
45°	529.2	537.8	556.2	582.1	599.3
47.5°	500.9	509.5	532.9	564.9	582.1
50°	471.3	481.2	509.5	546.4	564.9
52.5°	440.6	451.6	487.3	526.7	545.2
55°	408.6	422.1	462.7	504.6	524.2
57.5°	375.3	390.1	438.1	482.4	503.3
60°	340.9	359.3	412.3	459.0	481.2
62.5°	305.2	327.3	386.4	434.4	457.8
65°	268.3	294.1	359.3	409.8	433.2
67.5°	230.1	264.6	332.3	385.2	408.6
70°	192.0	232.6	304.0	358.1	381.5
72.5°	156.3	203.1	275.7	326.1	331.0
75°	121.8	173.5	246.1	251.0	242.4
77.5°	91.1	144.0	203.1	180.9	179.7
80°	65.2	115.7	130.4	134.1	135.4
82.5°	43.1	87.4	84.9	87.4	86.1
85°	25.8	43.1	44.3	43.1	40.6
87.5°	12.3	16.0	12.3	11.1	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)