

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: P263881

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263881
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-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2285.0 lumens
Efficiency: N/A
Efficacy: 85.6 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

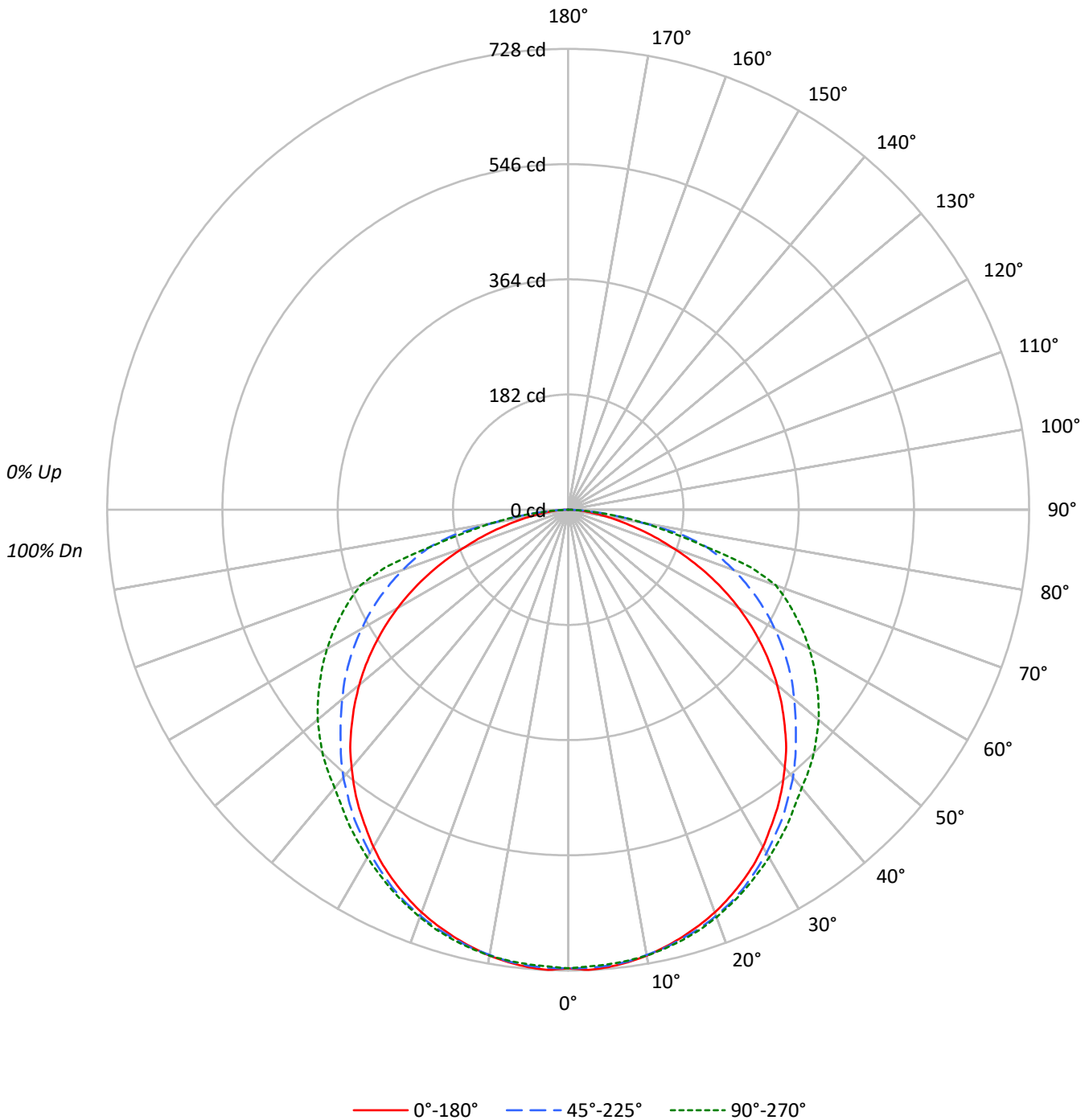
Input Watts (W): 26.691
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	975	975	975
5°	980	977	974
10°	977	976	977
15°	973	976	979
20°	969	978	981
25°	963	977	982
30°	956	973	986
35°	946	972	994
40°	934	970	1007
45°	920	967	1042
50°	902	975	1081
55°	876	992	1124
60°	839	1014	1183
65°	781	1046	1260
70°	690	1093	1372
75°	579	1170	1152
80°	462	924	958
85°	364	625	573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.0
10°-20°	197.7	8.7
20°-30°	302.0	13.2
30°-40°	369.2	16.2
40°-50°	395.2	17.3
50°-60°	379.1	16.6
60°-70°	320.1	14.0
70°-80°	204.6	9.0
80°-90°	48.4	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°	568.4	24.9
0°-40°	937.7	41.0
0°-60°	1712.0	74.9
0°-90°	2285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	726	721	723	722	721	69
15°	698	696	701	703	703	197
25°	649	648	658	660	661	299
35°	576	580	592	600	605	360
45°	484	492	508	532	548	373
55°	373	386	423	461	479	333
65°	245	269	328	375	396	242
75°	111	159	225	230	222	120
85°	24	39	40	39	37	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.4	724.4	724.4	724.4	724.4
2.5°	727.7	723.2	724.4	724.4	722.1
5°	725.5	721.0	723.2	722.1	721.0
7.5°	721.0	717.6	719.9	719.9	718.7
10°	715.4	712.0	714.2	715.4	715.4
12.5°	707.5	705.2	708.6	708.6	709.7
15°	698.5	696.2	700.7	703.0	703.0
17.5°	688.4	687.2	692.9	694.0	695.1
20°	677.1	676.0	682.7	682.7	685.0
22.5°	663.6	662.5	671.5	671.5	673.7
25°	649.0	647.9	658.0	660.3	661.4
27.5°	633.3	632.1	642.3	645.6	647.9
30°	615.3	615.3	626.5	631.0	634.4
32.5°	595.0	598.4	608.5	615.3	619.8
35°	575.9	580.4	591.6	599.5	605.1
37.5°	554.5	559.0	571.4	581.5	588.3
40°	532.0	537.6	552.3	563.5	573.6
42.5°	509.5	515.2	530.9	547.8	561.3
45°	483.7	491.5	508.4	532.0	547.8
47.5°	457.8	465.7	487.0	516.3	532.0
50°	430.8	439.8	465.7	499.4	516.3
52.5°	402.7	412.8	445.4	481.4	498.3
55°	373.4	385.8	422.9	461.2	479.2
57.5°	343.1	356.6	400.4	440.9	460.0
60°	311.6	328.4	376.8	419.5	439.8
62.5°	278.9	299.2	353.2	397.1	418.4
65°	245.2	268.8	328.4	374.6	395.9
67.5°	210.3	241.8	303.7	352.1	373.4
70°	175.5	212.6	277.8	327.3	348.7
72.5°	142.8	185.6	252.0	298.1	302.6
75°	111.4	158.6	225.0	229.5	221.6
77.5°	83.2	131.6	185.6	165.3	164.2
80°	59.6	105.7	119.2	122.6	123.7
82.5°	39.4	79.9	77.6	79.9	78.7
85°	23.6	39.4	40.5	39.4	37.1
87.5°	11.2	14.6	11.2	10.1	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)