

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: P263576

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263576
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-LD5-35-RDP-UNV-L93050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2284.3 lumens
Efficiency: N/A
Efficacy: 90.7 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

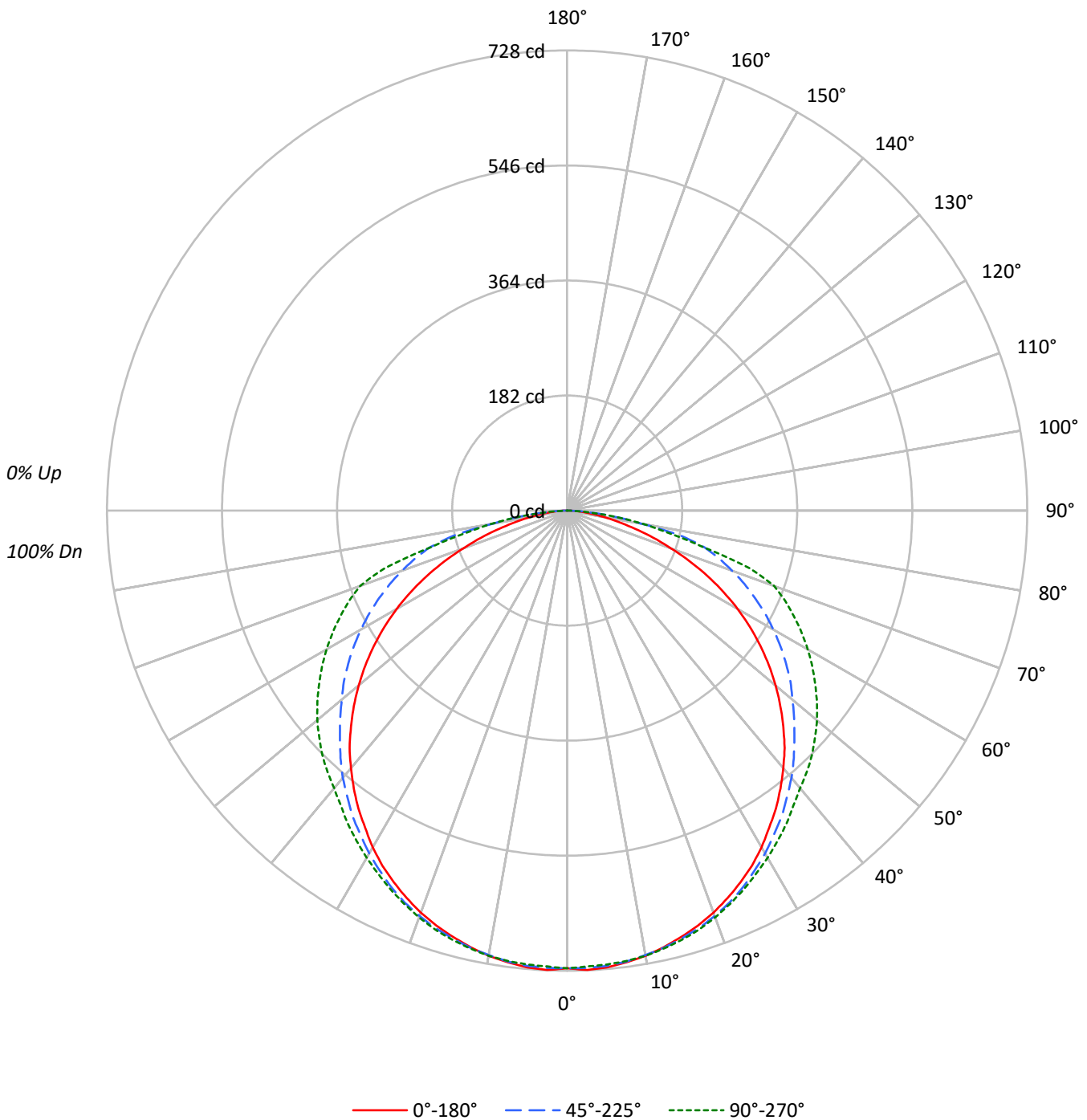
Input Watts (W): 25.19556
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	974	974	974
5°	980	977	974
10°	977	975	977
15°	973	976	979
20°	969	977	981
25°	963	977	982
30°	956	973	985
35°	946	972	994
40°	934	970	1007
45°	920	967	1042
50°	902	974	1080
55°	876	992	1124
60°	838	1014	1183
65°	780	1045	1260
70°	690	1092	1371
75°	579	1169	1151
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°	301.9	13.2
30°-40°	369.1	16.2
40°-50°	395.1	17.3
50°-60°	379.0	16.6
60°-70°	320.0	14.0
70°-80°	204.5	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°	568.3	24.9
0°-40°	937.4	41.0
0°-60°	1711.4	74.9
0°-90°	2284.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2284.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	725	721	723	722	721	69
15°	698	696	700	703	703	197
25°	649	648	658	660	661	299
35°	576	580	592	599	605	360
45°	484	491	508	532	548	373
55°	373	386	423	461	479	333
65°	245	269	328	374	396	242
75°	111	158	225	229	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°	724.1	724.1	724.1	724.1	724.1
2.5°	727.5	723.0	724.1	724.1	721.9
5°	725.3	720.8	723.0	721.9	720.8
7.5°	720.8	717.4	719.6	719.6	718.5
10°	715.1	711.8	714.0	715.1	715.1
12.5°	707.3	705.0	708.4	708.4	709.5
15°	698.3	696.0	700.5	702.8	702.8
17.5°	688.2	687.0	692.7	693.8	694.9
20°	676.9	675.8	682.5	682.5	684.8
22.5°	663.4	662.3	671.3	671.3	673.5
25°	648.8	647.7	657.8	660.0	661.2
27.5°	633.1	631.9	642.1	645.4	647.7
30°	615.1	615.1	626.3	630.8	634.2
32.5°	594.8	598.2	608.3	615.1	619.6
35°	575.7	580.2	591.5	599.3	604.9
37.5°	554.3	558.8	571.2	581.3	588.1
40°	531.9	537.5	552.1	563.3	573.5
42.5°	509.4	515.0	530.7	547.6	561.1
45°	483.5	491.4	508.2	531.9	547.6
47.5°	457.6	465.5	486.9	516.1	531.9
50°	430.7	439.7	465.5	499.3	516.1
52.5°	402.5	412.7	445.3	481.3	498.1
55°	373.3	385.7	422.8	461.0	479.0
57.5°	343.0	356.4	400.3	440.8	459.9
60°	311.5	328.3	376.7	419.4	439.7
62.5°	278.9	299.1	353.1	396.9	418.3
65°	245.1	268.7	328.3	374.4	395.8
67.5°	210.3	241.8	303.6	351.9	373.3
70°	175.4	212.5	277.7	327.2	348.6
72.5°	142.8	185.5	251.9	298.0	302.5
75°	111.3	158.5	224.9	229.4	221.5
77.5°	83.2	131.6	185.5	165.3	164.2
80°	59.6	105.7	119.2	122.6	123.7
82.5°	39.4	79.8	77.6	79.8	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)