

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: P263570

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263570
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-LD5-30-RDP-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1992.8 lumens
Efficiency: N/A
Efficacy: 97.5 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

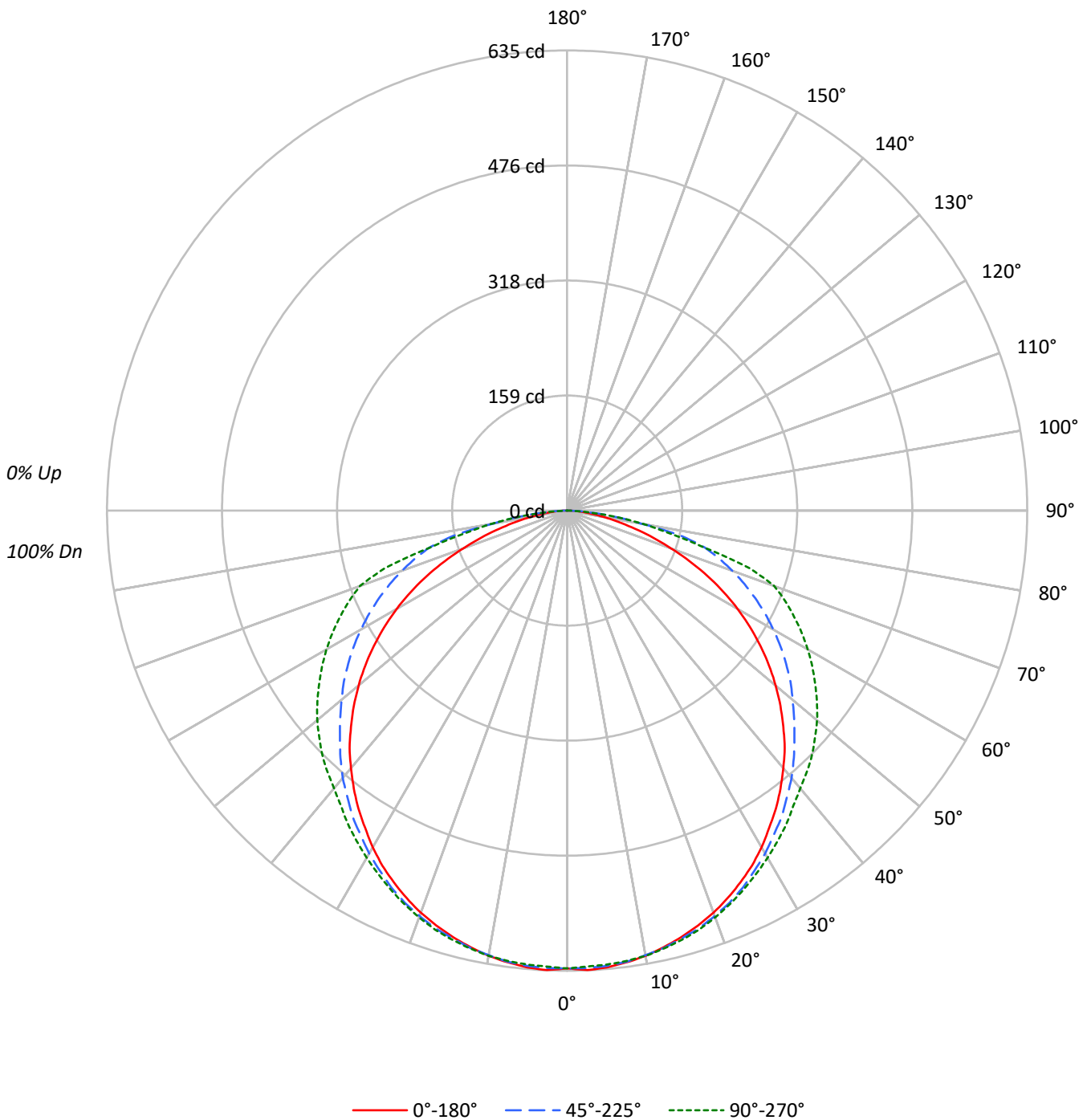
Input Watts (W): 20.447166
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	850	850	850
5°	855	852	849
10°	852	851	852
15°	849	851	854
20°	846	853	855
25°	840	852	856
30°	834	849	860
35°	825	848	867
40°	815	846	879
45°	803	844	909
50°	786	850	943
55°	764	865	980
60°	731	884	1032
65°	681	912	1099
70°	602	953	1196
75°	505	1020	1005
80°	403	806	836
85°	318	545	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	3.0
10°-20°	172.4	8.7
20°-30°	263.4	13.2
30°-40°	322.0	16.2
40°-50°	344.7	17.3
50°-60°	330.6	16.6
60°-70°	279.2	14.0
70°-80°	178.4	9.0
80°-90°	42.2	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°	495.8	24.9
0°-40°	817.8	41.0
0°-60°	1493.1	74.9
0°-90°	1992.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1992.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	633	629	631	630	629	60
15°	609	607	611	613	613	172
25°	566	565	574	576	577	261
35°	502	506	516	523	528	314
45°	422	429	443	464	478	325
55°	326	336	369	402	418	291
65°	214	234	286	327	345	211
75°	97	138	196	200	193	105
85°	21	34	35	34	32	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	631.7	631.7	631.7	631.7	631.7
2.5°	634.7	630.8	631.7	631.7	629.8
5°	632.7	628.8	630.8	629.8	628.8
7.5°	628.8	625.9	627.8	627.8	626.8
10°	623.9	621.0	622.9	623.9	623.9
12.5°	617.0	615.1	618.0	618.0	619.0
15°	609.2	607.2	611.1	613.1	613.1
17.5°	600.4	599.4	604.3	605.3	606.2
20°	590.5	589.6	595.4	595.4	597.4
22.5°	578.8	577.8	585.6	585.6	587.6
25°	566.0	565.0	573.9	575.8	576.8
27.5°	552.3	551.3	560.1	563.1	565.0
30°	536.6	536.6	546.4	550.3	553.3
32.5°	518.9	521.9	530.7	536.6	540.5
35°	502.3	506.2	516.0	522.9	527.8
37.5°	483.6	487.5	498.3	507.2	513.0
40°	464.0	468.9	481.7	491.5	500.3
42.5°	444.4	449.3	463.0	477.7	489.5
45°	421.8	428.7	443.4	464.0	477.7
47.5°	399.3	406.1	424.8	450.3	464.0
50°	375.7	383.6	406.1	435.5	450.3
52.5°	351.2	360.0	388.5	419.9	434.6
55°	325.7	336.5	368.8	402.2	417.9
57.5°	299.2	311.0	349.2	384.5	401.2
60°	271.7	286.4	328.6	365.9	383.6
62.5°	243.3	260.9	308.0	346.3	364.9
65°	213.9	234.5	286.4	326.7	345.3
67.5°	183.4	210.9	264.9	307.0	325.7
70°	153.0	185.4	242.3	285.5	304.1
72.5°	124.6	161.9	219.7	260.0	263.9
75°	97.1	138.3	196.2	200.1	193.3
77.5°	72.6	114.8	161.9	144.2	143.2
80°	52.0	92.2	104.0	106.9	107.9
82.5°	34.3	69.6	67.7	69.6	68.7
85°	20.6	34.3	35.3	34.3	32.4
87.5°	9.8	12.8	9.8	8.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)