

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: P263569

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263569
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-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: 1958.7 lumens
Efficiency: N/A
Efficacy: 97.3 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

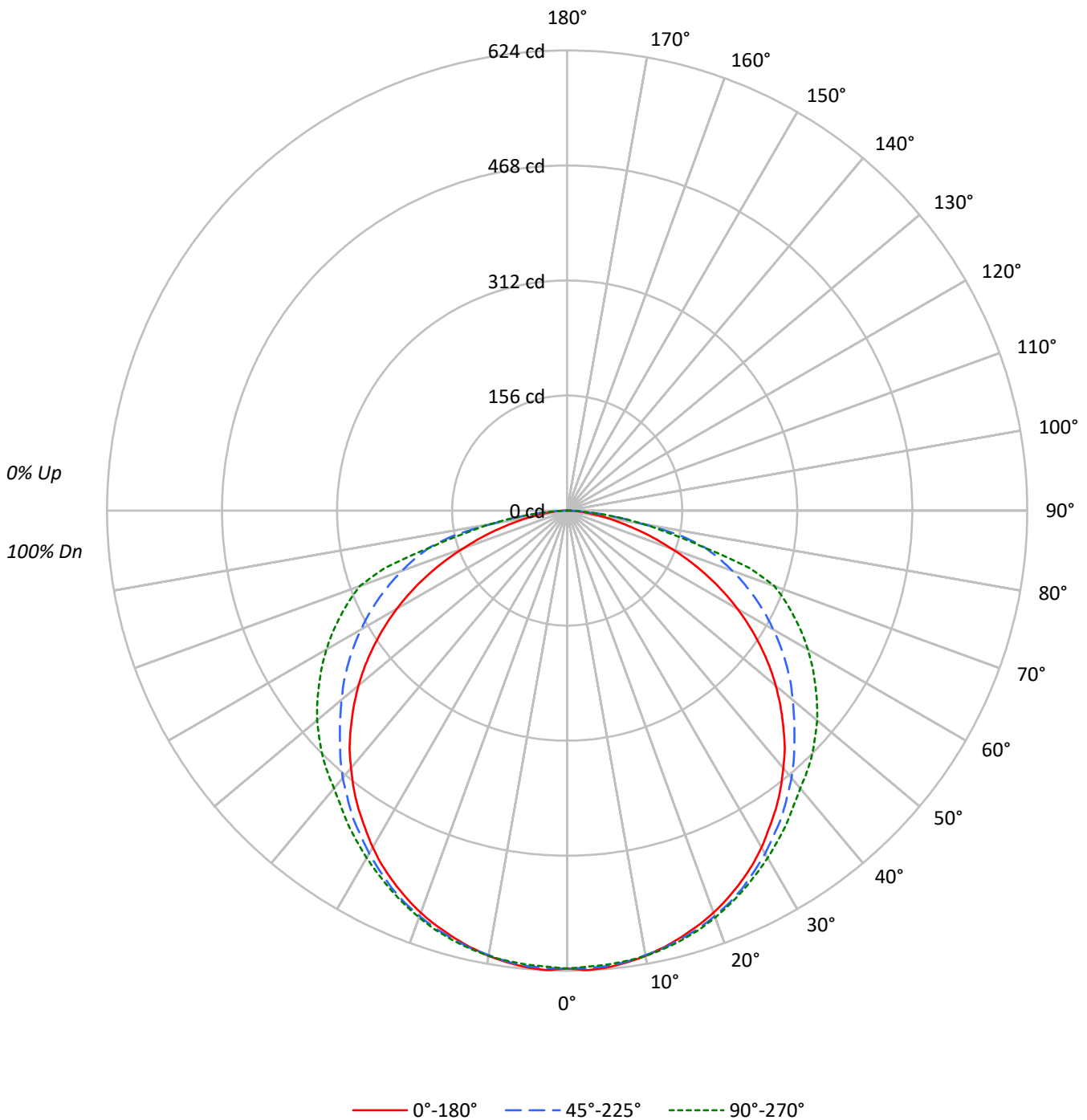
Input Watts (W): 20.133198
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	835	835	835
5°	840	837	835
10°	838	836	838
15°	834	837	839
20°	831	838	841
25°	826	837	842
30°	819	834	845
35°	811	833	852
40°	801	831	864
45°	789	829	893
50°	773	836	926
55°	751	850	963
60°	719	869	1014
65°	669	896	1081
70°	592	937	1176
75°	496	1002	987
80°	396	792	822
85°	312	536	491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	3.0
10°-20°	169.5	8.7
20°-30°	258.9	13.2
30°-40°	316.5	16.2
40°-50°	338.8	17.3
50°-60°	324.9	16.6
60°-70°	274.4	14.0
70°-80°	175.3	9.0
80°-90°	41.5	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°	487.3	24.9
0°-40°	803.8	41.0
0°-60°	1467.5	74.9
0°-90°	1958.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1958.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	621	621	621	621	621	
5°	622	618	620	619	618	59
15°	599	597	601	603	603	169
25°	556	555	564	566	567	256
35°	494	498	507	514	519	309
45°	415	421	436	456	470	320
55°	320	331	362	395	411	286
65°	210	230	282	321	339	207
75°	96	136	193	197	190	103
85°	20	34	35	34	32	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	620.9	620.9	620.9	620.9	620.9
2.5°	623.8	620.0	620.9	620.9	619.0
5°	621.9	618.0	620.0	619.0	618.0
7.5°	618.0	615.1	617.1	617.1	616.1
10°	613.2	610.3	612.2	613.2	613.2
12.5°	606.5	604.5	607.4	607.4	608.4
15°	598.7	596.8	600.7	602.6	602.6
17.5°	590.1	589.1	593.9	594.9	595.9
20°	580.4	579.5	585.2	585.2	587.2
22.5°	568.9	567.9	575.6	575.6	577.5
25°	556.3	555.4	564.0	566.0	566.9
27.5°	542.8	541.9	550.5	553.4	555.4
30°	527.4	527.4	537.0	540.9	543.8
32.5°	510.0	512.9	521.6	527.4	531.3
35°	493.7	497.5	507.2	513.9	518.7
37.5°	475.3	479.2	489.8	498.5	504.3
40°	456.0	460.9	473.4	483.0	491.7
42.5°	436.8	441.6	455.1	469.5	481.1
45°	414.6	421.3	435.8	456.0	469.5
47.5°	392.4	399.2	417.5	442.6	456.0
50°	369.3	377.0	399.2	428.1	442.6
52.5°	345.2	353.8	381.8	412.7	427.1
55°	320.1	330.7	362.5	395.3	410.7
57.5°	294.1	305.6	343.2	378.0	394.3
60°	267.1	281.5	323.0	359.6	377.0
62.5°	239.1	256.5	302.7	340.3	358.7
65°	210.2	230.4	281.5	321.1	339.4
67.5°	180.3	207.3	260.3	301.8	320.1
70°	150.4	182.2	238.1	280.6	298.9
72.5°	122.4	159.1	216.0	255.5	259.4
75°	95.5	135.9	192.8	196.7	189.9
77.5°	71.3	112.8	159.1	141.7	140.8
80°	51.1	90.6	102.2	105.1	106.1
82.5°	33.7	68.5	66.5	68.5	67.5
85°	20.2	33.7	34.7	33.7	31.8
87.5°	9.6	12.5	9.6	8.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)