

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: P263792

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263792
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-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2296.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

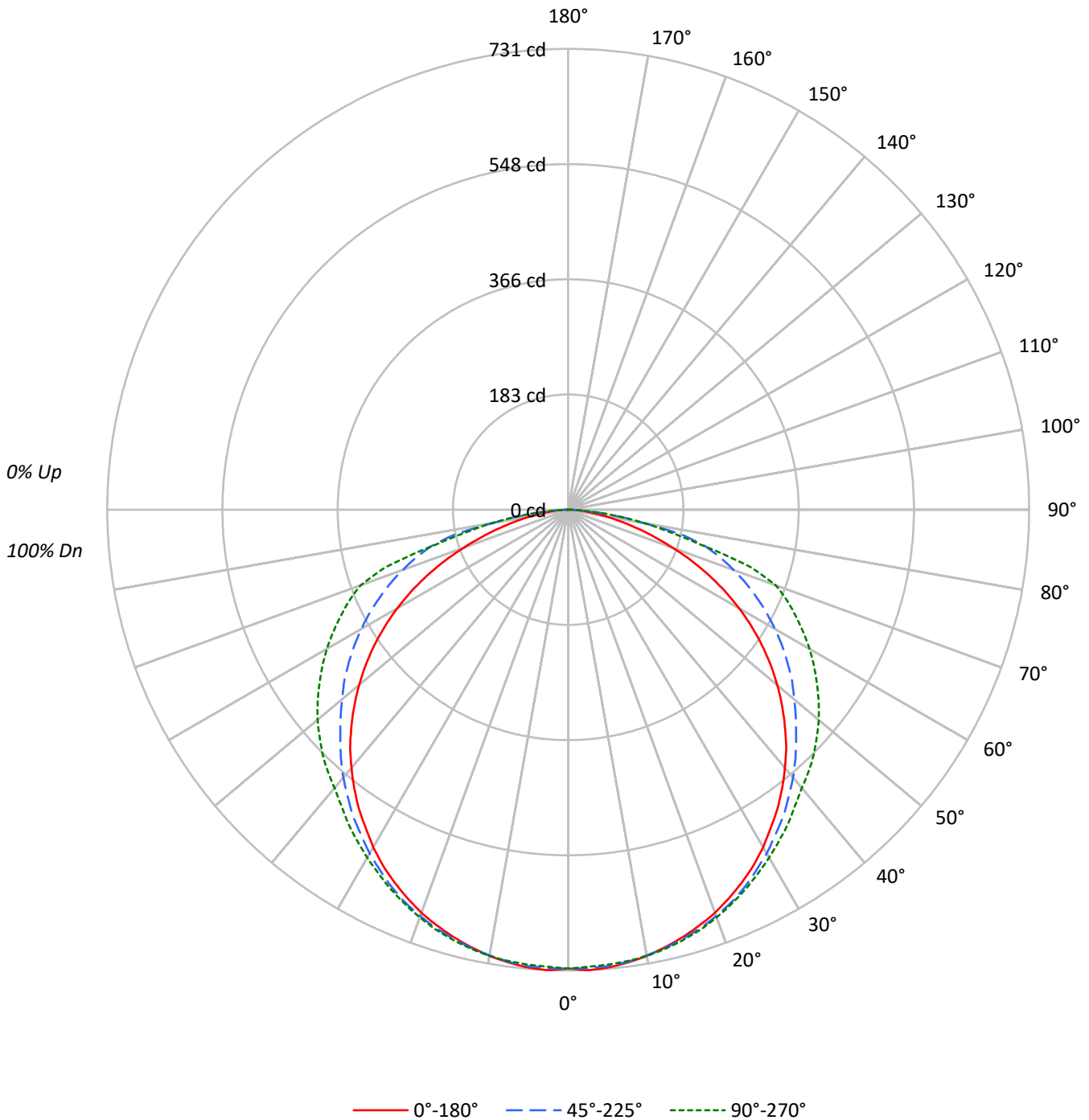
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	979	979	979
5°	985	982	979
10°	982	981	982
15°	978	981	984
20°	974	982	986
25°	968	982	987
30°	960	978	990
35°	951	976	999
40°	939	975	1012
45°	925	972	1047
50°	906	979	1086
55°	880	997	1129
60°	843	1019	1189
65°	784	1051	1266
70°	694	1098	1378
75°	582	1175	1158
80°	464	928	963
85°	366	628	576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	3.0
10°-20°	198.7	8.7
20°-30°	303.5	13.2
30°-40°	371.0	16.2
40°-50°	397.1	17.3
50°-60°	380.9	16.6
60°-70°	321.6	14.0
70°-80°	205.5	9.0
80°-90°	48.6	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°	571.2	24.9
0°-40°	942.2	41.0
0°-60°	1720.2	74.9
0°-90°	2296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	729	724	727	726	724	69
15°	702	700	704	706	706	198
25°	652	651	661	663	665	301
35°	579	583	594	602	608	362
45°	486	494	511	535	550	375
55°	375	388	425	463	482	335
65°	246	270	330	376	398	243
75°	112	159	226	231	223	120
85°	24	40	41	40	37	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	727.9	727.9	727.9	727.9	727.9
2.5°	731.2	726.7	727.9	727.9	725.6
5°	729.0	724.5	726.7	725.6	724.5
7.5°	724.5	721.1	723.3	723.3	722.2
10°	718.8	715.4	717.7	718.8	718.8
12.5°	710.9	708.6	712.0	712.0	713.2
15°	701.9	699.6	704.1	706.4	706.4
17.5°	691.7	690.6	696.2	697.3	698.5
20°	680.4	679.3	686.0	686.0	688.3
22.5°	666.8	665.7	674.7	674.7	677.0
25°	652.1	651.0	661.2	663.4	664.6
27.5°	636.3	635.2	645.3	648.7	651.0
30°	618.2	618.2	629.5	634.0	637.4
32.5°	597.9	601.3	611.4	618.2	622.7
35°	578.7	583.2	594.5	602.4	608.0
37.5°	557.2	561.7	574.1	584.3	591.1
40°	534.6	540.2	554.9	566.2	576.4
42.5°	512.0	517.6	533.5	550.4	564.0
45°	486.0	493.9	510.9	534.6	550.4
47.5°	460.0	467.9	489.4	518.8	534.6
50°	432.9	441.9	467.9	501.8	518.8
52.5°	404.6	414.8	447.6	483.7	500.7
55°	375.2	387.7	425.0	463.4	481.5
57.5°	344.7	358.3	402.4	443.0	462.3
60°	313.1	330.0	378.6	421.6	441.9
62.5°	280.3	300.6	354.9	399.0	420.4
65°	246.4	270.1	330.0	376.4	397.8
67.5°	211.3	243.0	305.2	353.8	375.2
70°	176.3	213.6	279.2	328.9	350.4
72.5°	143.5	186.5	253.2	299.5	304.0
75°	111.9	159.4	226.0	230.6	222.7
77.5°	83.6	132.2	186.5	166.1	165.0
80°	59.9	106.2	119.8	123.2	124.3
82.5°	39.6	80.2	78.0	80.2	79.1
85°	23.7	39.6	40.7	39.6	37.3
87.5°	11.3	14.7	11.3	10.2	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)