

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: P263648

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263648
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-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2218.0 lumens
Efficiency: N/A
Efficacy: 109.9 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

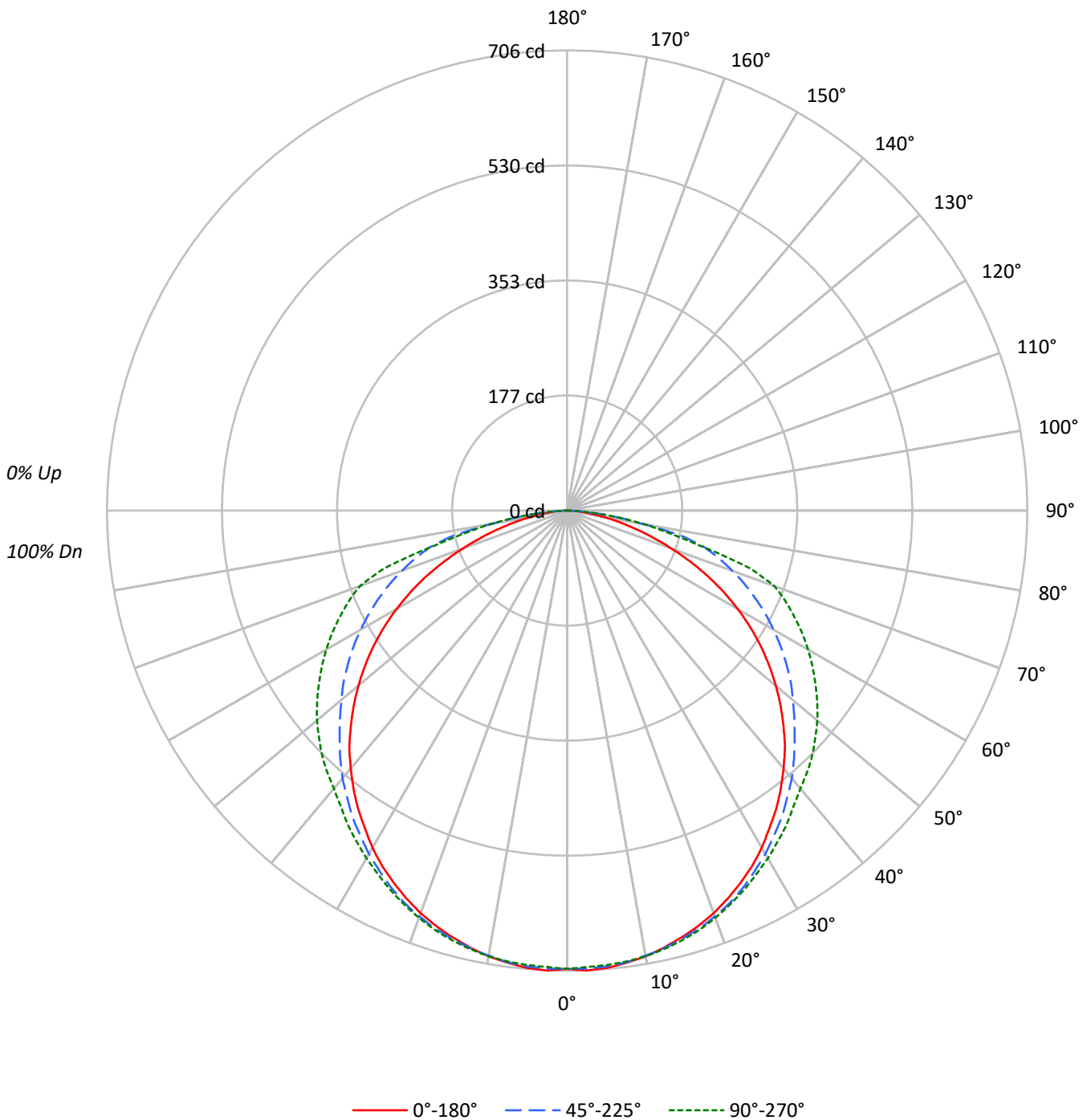
Input Watts (W): 20.181
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	946	946	946
5°	951	948	945
10°	949	947	949
15°	944	947	951
20°	941	949	952
25°	935	948	953
30°	928	945	957
35°	918	943	965
40°	907	942	978
45°	893	939	1012
50°	875	946	1049
55°	850	963	1091
60°	814	984	1149
65°	758	1015	1223
70°	670	1061	1332
75°	562	1135	1118
80°	449	896	931
85°	354	607	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.0
10°-20°	191.9	8.7
20°-30°	293.2	13.2
30°-40°	358.4	16.2
40°-50°	383.6	17.3
50°-60°	368.0	16.6
60°-70°	310.7	14.0
70°-80°	198.6	9.0
80°-90°	46.9	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°	551.8	24.9
0°-40°	910.2	41.0
0°-60°	1661.8	74.9
0°-90°	2218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2218.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	704	700	702	701	700	67
15°	678	676	680	682	682	191
25°	630	629	639	641	642	290
35°	559	563	574	582	587	350
45°	470	477	494	516	532	362
55°	362	374	410	448	465	323
65°	238	261	319	364	384	235
75°	108	154	218	223	215	116
85°	23	38	39	38	36	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	703.1	703.1	703.1	703.1	703.1
2.5°	706.4	702.0	703.1	703.1	700.9
5°	704.2	699.8	702.0	700.9	699.8
7.5°	699.8	696.6	698.8	698.8	697.7
10°	694.4	691.1	693.3	694.4	694.4
12.5°	686.7	684.6	687.8	687.8	688.9
15°	678.0	675.8	680.2	682.4	682.4
17.5°	668.2	667.1	672.6	673.6	674.7
20°	657.3	656.2	662.7	662.7	664.9
22.5°	644.2	643.1	651.8	651.8	654.0
25°	630.0	628.9	638.7	640.9	642.0
27.5°	614.7	613.6	623.4	626.7	628.9
30°	597.2	597.2	608.1	612.5	615.8
32.5°	577.6	580.8	590.7	597.2	601.6
35°	559.0	563.4	574.3	581.9	587.4
37.5°	538.3	542.6	554.6	564.5	571.0
40°	516.4	521.9	536.1	547.0	556.8
42.5°	494.6	500.0	515.3	531.7	544.8
45°	469.5	477.1	493.5	516.4	531.7
47.5°	444.4	452.0	472.8	501.1	516.4
50°	418.2	426.9	452.0	484.8	501.1
52.5°	390.9	400.7	432.4	467.3	483.7
55°	362.5	374.5	410.5	447.6	465.1
57.5°	333.0	346.1	388.7	428.0	446.5
60°	302.4	318.8	365.8	407.2	426.9
62.5°	270.8	290.4	342.8	385.4	406.2
65°	238.0	260.9	318.8	363.6	384.3
67.5°	204.2	234.7	294.8	341.7	362.5
70°	170.3	206.4	269.7	317.7	338.5
72.5°	138.7	180.1	244.6	289.3	293.7
75°	108.1	153.9	218.4	222.7	215.1
77.5°	80.8	127.7	180.1	160.5	159.4
80°	57.9	102.6	115.7	119.0	120.1
82.5°	38.2	77.5	75.3	77.5	76.4
85°	22.9	38.2	39.3	38.2	36.0
87.5°	10.9	14.2	10.9	9.8	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)