

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: P261205

Luminaire Tested: **24CZ-LD5-75-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-S-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7509.0 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

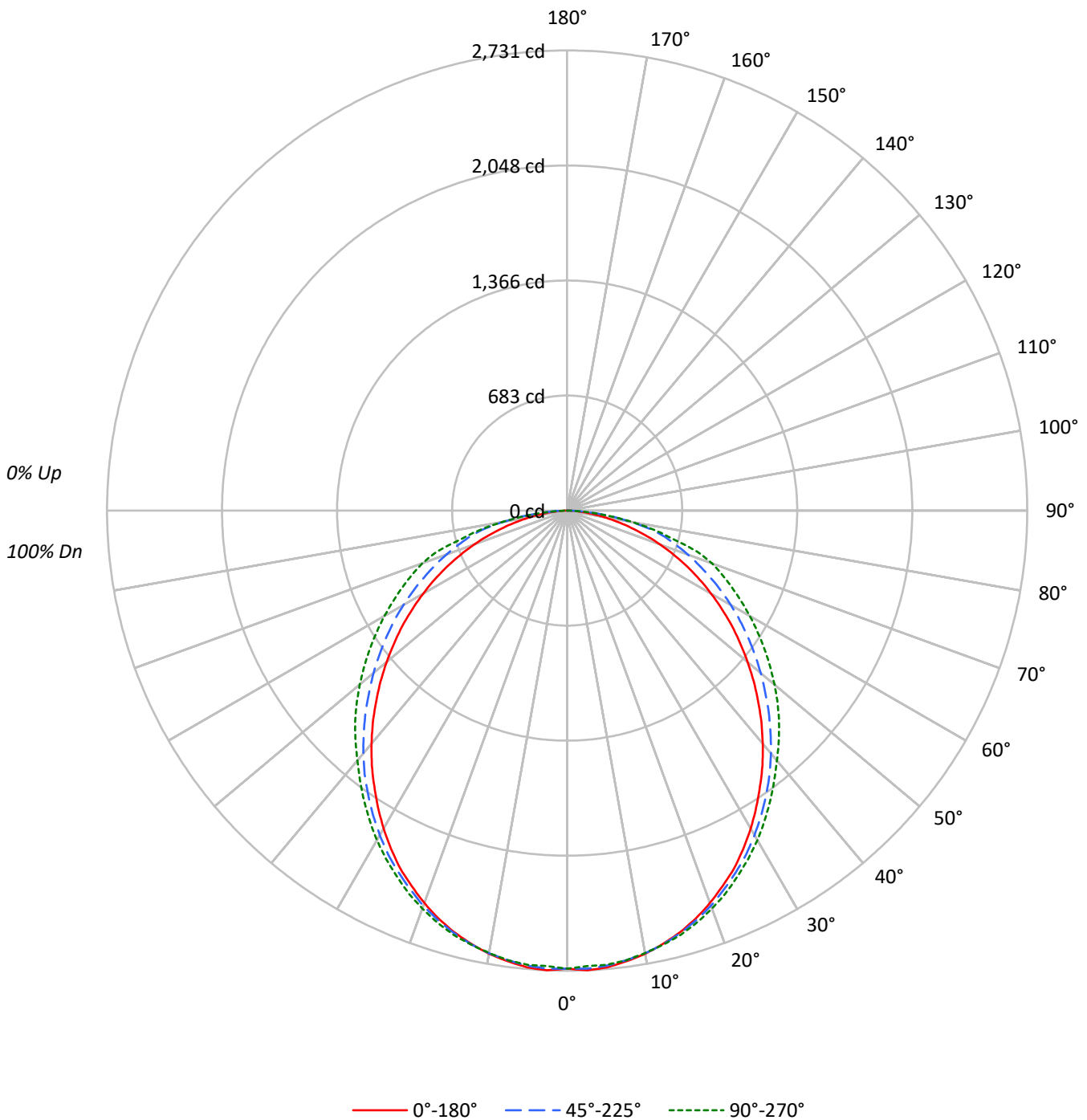
Input Watts (W): 58.683
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3658	3658	3658
5°	3675	3661	3655
10°	3649	3646	3642
15°	3609	3616	3630
20°	3549	3574	3599
25°	3479	3516	3553
30°	3385	3455	3509
35°	3279	3382	3451
40°	3173	3305	3401
45°	3052	3219	3385
50°	2929	3138	3363
55°	2802	3071	3353
60°	2656	3019	3369
65°	2498	2983	3436
70°	2300	2998	3598
75°	2039	3104	3351
80°	1704	2943	3020
85°	1274	2353	2160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.0	3.4
10°-20°	730.9	9.7
20°-30°	1089.3	14.5
30°-40°	1282.3	17.1
40°-50°	1303.1	17.4
50°-60°	1171.6	15.6
60°-70°	925.6	12.3
70°-80°	587.2	7.8
80°-90°	162.1	2.2
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°	2077.3	27.7
0°-40°	3359.6	44.7
0°-60°	5834.2	77.7
0°-90°	7509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2718	2718	2718	2718	2718	
5°	2721	2698	2711	2706	2706	258
15°	2591	2578	2596	2604	2606	730
25°	2344	2341	2369	2384	2394	1078
35°	1996	2009	2059	2081	2101	1249
45°	1604	1626	1692	1742	1779	1238
55°	1194	1224	1309	1394	1429	1067
65°	784	824	937	1039	1079	777
75°	392	460	597	650	645	418
85°	82	142	152	140	140	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2718.4	2718.4	2718.4	2718.4	2718.4
2.5°	2730.9	2710.9	2720.9	2715.9	2705.9
5°	2720.9	2698.4	2710.9	2705.9	2705.9
7.5°	2698.4	2680.9	2690.9	2688.4	2690.9
10°	2670.9	2653.4	2668.4	2668.4	2665.9
12.5°	2633.4	2618.5	2635.9	2635.9	2638.4
15°	2591.0	2578.5	2596.0	2603.5	2606.0
17.5°	2538.5	2526.0	2548.5	2556.0	2563.5
20°	2478.5	2473.5	2496.0	2503.5	2513.5
22.5°	2411.1	2411.1	2433.6	2443.6	2458.5
25°	2343.6	2341.1	2368.6	2383.6	2393.6
27.5°	2263.7	2266.2	2301.1	2316.1	2328.6
30°	2178.7	2183.7	2223.7	2241.2	2258.7
32.5°	2088.8	2098.8	2143.7	2163.7	2181.2
35°	1996.3	2008.8	2058.8	2081.3	2101.3
37.5°	1903.9	1921.4	1973.8	1996.3	2018.8
40°	1806.4	1821.4	1881.4	1908.9	1936.4
42.5°	1706.5	1726.5	1786.4	1826.4	1858.9
45°	1604.1	1626.5	1691.5	1741.5	1779.0
47.5°	1501.6	1531.6	1594.1	1661.5	1694.0
50°	1399.2	1429.2	1499.1	1574.1	1606.6
52.5°	1294.2	1324.2	1404.2	1481.6	1516.6
55°	1194.3	1224.3	1309.2	1394.2	1429.2
57.5°	1089.4	1121.8	1216.8	1304.2	1339.2
60°	986.9	1019.4	1121.8	1214.3	1251.8
62.5°	887.0	922.0	1029.4	1126.8	1164.3
65°	784.5	824.5	936.9	1039.4	1079.4
67.5°	684.6	729.6	847.0	954.4	996.9
70°	584.7	637.1	762.1	872.0	914.5
72.5°	487.2	544.7	677.1	787.0	809.5
75°	392.3	459.7	597.1	649.6	644.6
77.5°	302.3	377.3	507.2	517.2	532.2
80°	219.9	302.3	379.8	399.8	389.8
82.5°	144.9	227.4	272.3	262.3	259.8
85°	82.5	142.4	152.4	139.9	139.9
87.5°	35.0	57.5	50.0	37.5	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)