

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: P261200

Luminaire Tested: **24CZ-LD5-70-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261200
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-LD5-70-S-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7479.0 lumens
Efficiency: N/A
Efficacy: 135.6 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

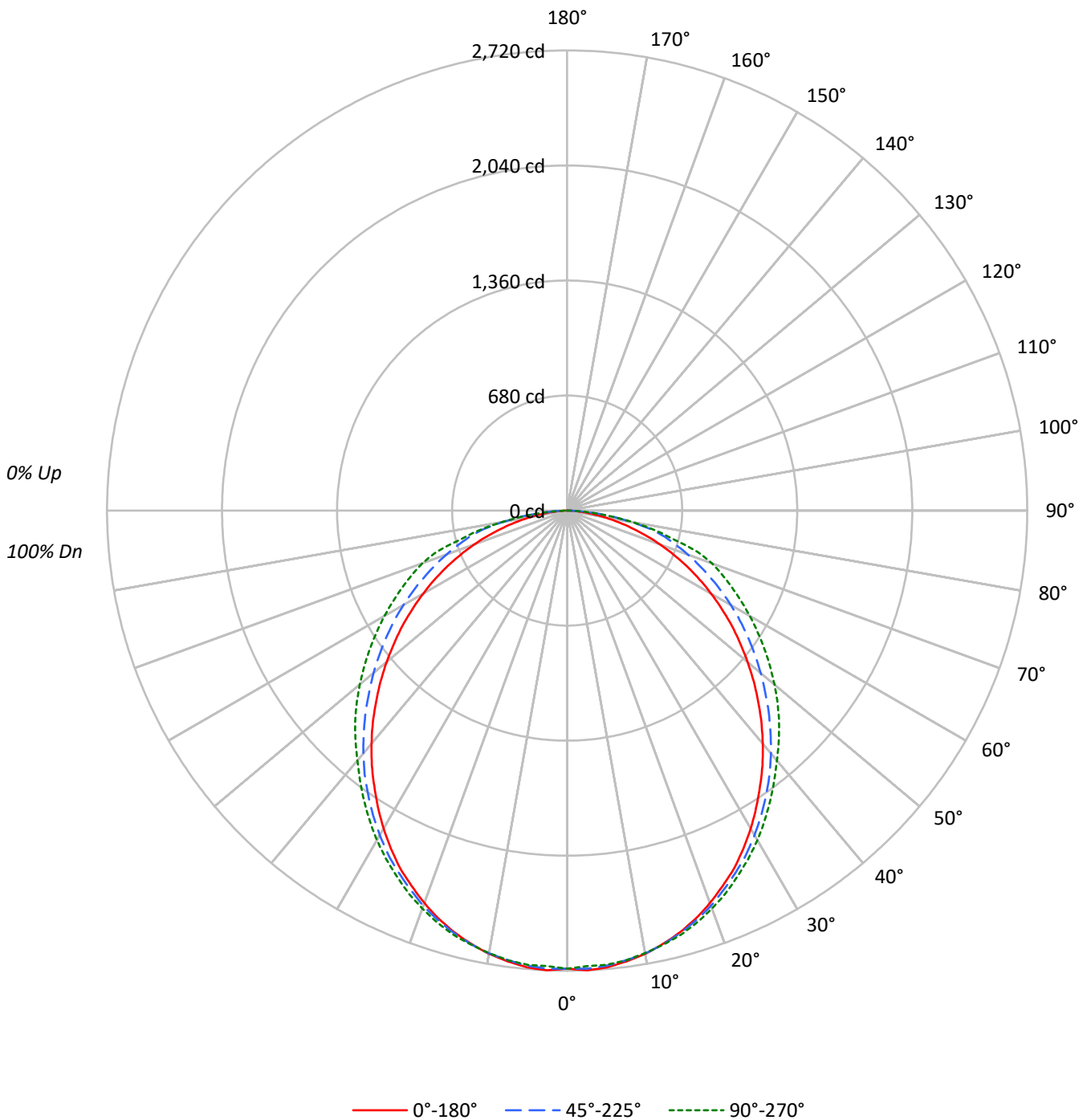
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3643	3643	3643
5°	3660	3647	3640
10°	3635	3631	3628
15°	3595	3602	3616
20°	3535	3560	3585
25°	3465	3502	3539
30°	3371	3441	3495
35°	3266	3368	3438
40°	3160	3291	3387
45°	3040	3206	3371
50°	2917	3125	3349
55°	2790	3059	3339
60°	2645	3007	3355
65°	2488	2971	3423
70°	2291	2986	3583
75°	2031	3092	3337
80°	1697	2931	3008
85°	1267	2343	2152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.0	3.4
10°-20°	728.0	9.7
20°-30°	1085.0	14.5
30°-40°	1277.2	17.1
40°-50°	1297.9	17.4
50°-60°	1166.9	15.6
60°-70°	921.9	12.3
70°-80°	584.8	7.8
80°-90°	161.4	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°	2069.0	27.7
0°-40°	3346.1	44.7
0°-60°	5810.9	77.7
0°-90°	7479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7479.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2708	2708	2708	2708	2708	
5°	2710	2688	2700	2695	2695	257
15°	2581	2568	2586	2593	2596	727
25°	2334	2332	2359	2374	2384	1073
35°	1988	2001	2051	2073	2093	1244
45°	1598	1620	1685	1734	1772	1233
55°	1190	1219	1304	1389	1423	1062
65°	781	821	933	1035	1075	774
75°	391	458	595	647	642	416
85°	82	142	152	139	139	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2707.5	2707.5	2707.5	2707.5	2707.5
2.5°	2720.0	2700.1	2710.0	2705.0	2695.1
5°	2710.0	2687.6	2700.1	2695.1	2695.1
7.5°	2687.6	2670.2	2680.2	2677.7	2680.2
10°	2660.3	2642.8	2657.8	2657.8	2655.3
12.5°	2622.9	2608.0	2625.4	2625.4	2627.9
15°	2580.6	2568.2	2585.6	2593.1	2595.6
17.5°	2528.4	2515.9	2538.3	2545.8	2553.2
20°	2468.6	2463.7	2486.1	2493.5	2503.5
22.5°	2401.4	2401.4	2423.8	2433.8	2448.7
25°	2334.3	2331.8	2359.1	2374.1	2384.0
27.5°	2254.6	2257.1	2291.9	2306.9	2319.3
30°	2170.0	2175.0	2214.8	2232.2	2249.6
32.5°	2080.4	2090.4	2135.2	2155.1	2172.5
35°	1988.3	2000.8	2050.6	2073.0	2092.9
37.5°	1896.3	1913.7	1965.9	1988.3	2010.7
40°	1799.2	1814.1	1873.9	1901.2	1928.6
42.5°	1699.7	1719.6	1779.3	1819.1	1851.5
45°	1597.6	1620.0	1684.7	1734.5	1771.8
47.5°	1495.6	1525.5	1587.7	1654.9	1687.2
50°	1393.6	1423.4	1493.1	1567.8	1600.1
52.5°	1289.1	1318.9	1398.6	1475.7	1510.5
55°	1189.5	1219.4	1304.0	1388.6	1423.4
57.5°	1085.0	1117.4	1211.9	1299.0	1333.9
60°	983.0	1015.3	1117.4	1209.4	1246.8
62.5°	883.4	918.3	1025.3	1122.3	1159.7
65°	781.4	821.2	933.2	1035.2	1075.1
67.5°	681.9	726.7	843.6	950.6	992.9
70°	582.3	634.6	759.0	868.5	910.8
72.5°	485.3	542.5	674.4	783.9	806.3
75°	390.7	457.9	594.8	647.0	642.0
77.5°	301.1	375.8	505.2	515.1	530.1
80°	219.0	301.1	378.3	398.2	388.2
82.5°	144.3	226.5	271.3	261.3	258.8
85°	82.1	141.8	151.8	139.4	139.4
87.5°	34.8	57.2	49.8	37.3	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)