

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: P261206

Luminaire Tested: **24CZ-LD5-75-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261206  
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-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7674.0 lumens  
Efficiency: N/A  
Efficacy: 129.9 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

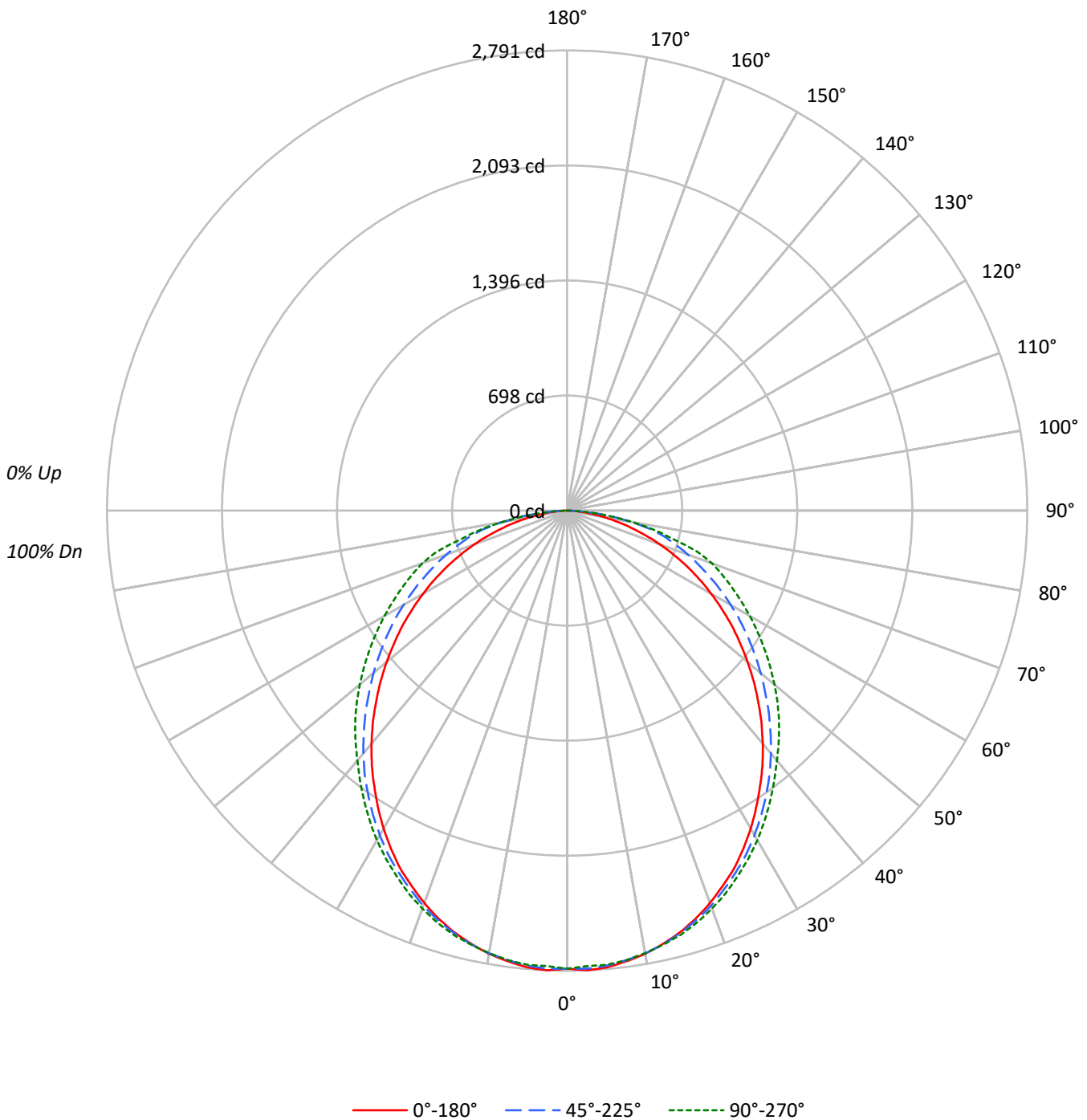
Input Watts (W): 59.055  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3738	3738	3738
5°	3756	3742	3735
10°	3729	3726	3722
15°	3688	3696	3710
20°	3627	3652	3678
25°	3556	3594	3632
30°	3459	3531	3586
35°	3351	3456	3527
40°	3243	3377	3476
45°	3119	3289	3459
50°	2993	3207	3437
55°	2863	3139	3426
60°	2714	3085	3443
65°	2553	3048	3512
70°	2351	3064	3677
75°	2084	3173	3425
80°	1741	3007	3086
85°	1301	2405	2208



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.7	3.4
10°-20°	747.0	9.7
20°-30°	1113.2	14.5
30°-40°	1310.5	17.1
40°-50°	1331.7	17.4
50°-60°	1197.3	15.6
60°-70°	945.9	12.3
70°-80°	600.1	7.8
80°-90°	165.6	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°	2122.9	27.7
0°-40°	3433.4	44.7
0°-60°	5962.4	77.7
0°-90°	7674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7674.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2778	2778	2778	2778	2778	
5°	2781	2758	2770	2765	2765	264
15°	2648	2635	2653	2661	2663	746
25°	2395	2393	2421	2436	2446	1101
35°	2040	2053	2104	2127	2147	1276
45°	1639	1662	1729	1780	1818	1265
55°	1220	1251	1338	1425	1461	1090
65°	802	843	958	1062	1103	794
75°	401	470	610	664	659	427
85°	84	146	156	143	143	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2778.1	2778.1	2778.1	2778.1	2778.1
2.5°	2790.9	2770.5	2780.7	2775.6	2765.4
5°	2780.7	2757.7	2770.5	2765.4	2765.4
7.5°	2757.7	2739.8	2750.0	2747.5	2750.0
10°	2729.6	2711.7	2727.1	2727.1	2724.5
12.5°	2691.3	2676.0	2693.9	2693.9	2696.4
15°	2647.9	2635.1	2653.0	2660.7	2663.2
17.5°	2594.3	2581.5	2604.5	2612.2	2619.8
20°	2533.0	2527.9	2550.9	2558.5	2568.7
22.5°	2464.1	2464.1	2487.0	2497.3	2512.6
25°	2395.1	2392.6	2420.6	2436.0	2446.2
27.5°	2313.4	2316.0	2351.7	2367.0	2379.8
30°	2226.6	2231.7	2272.6	2290.4	2308.3
32.5°	2134.7	2144.9	2190.8	2211.3	2229.1
35°	2040.2	2053.0	2104.0	2127.0	2147.4
37.5°	1945.7	1963.6	2017.2	2040.2	2063.2
40°	1846.1	1861.4	1922.7	1950.8	1978.9
42.5°	1744.0	1764.4	1825.7	1866.6	1899.8
45°	1639.3	1662.3	1728.7	1779.7	1818.0
47.5°	1534.6	1565.3	1629.1	1698.0	1731.2
50°	1429.9	1460.6	1532.1	1608.7	1641.9
52.5°	1322.7	1353.3	1435.0	1514.2	1549.9
55°	1220.5	1251.2	1338.0	1424.8	1460.6
57.5°	1113.3	1146.5	1243.5	1332.9	1368.6
60°	1008.6	1041.8	1146.5	1241.0	1279.3
62.5°	906.5	942.2	1052.0	1151.6	1189.9
65°	801.8	842.6	957.5	1062.2	1103.1
67.5°	699.6	745.6	865.6	975.4	1018.8
70°	597.5	651.1	778.8	891.1	934.6
72.5°	497.9	556.6	692.0	804.3	827.3
75°	400.9	469.8	610.3	663.9	658.8
77.5°	309.0	385.6	518.3	528.6	543.9
80°	224.7	309.0	388.1	408.5	398.3
82.5°	148.1	232.4	278.3	268.1	265.6
85°	84.3	145.5	155.8	143.0	143.0
87.5°	35.7	58.7	51.1	38.3	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)