

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: P260786

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-75-UNV-L82765-W2A1-U-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7524.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

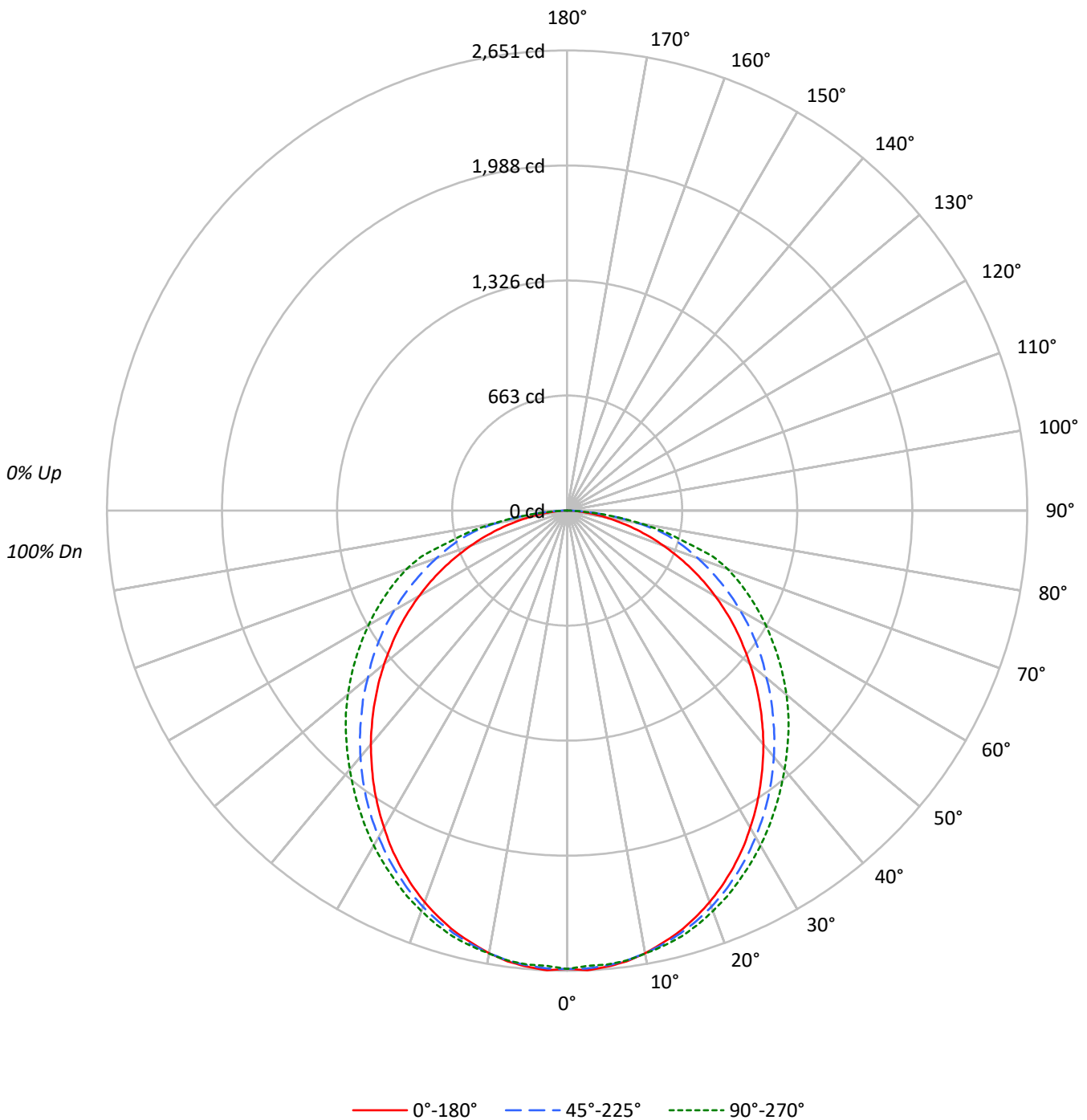
Input Watts (W): 59.055  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3553	3553	3553
5°	3563	3552	3546
10°	3537	3537	3541
15°	3495	3513	3538
20°	3438	3478	3515
25°	3366	3431	3488
30°	3278	3374	3462
35°	3186	3317	3436
40°	3090	3253	3421
45°	2985	3191	3431
50°	2880	3138	3451
55°	2774	3118	3487
60°	2648	3099	3556
65°	2510	3100	3674
70°	2321	3152	3871
75°	2076	3294	3683
80°	1736	3154	3374
85°	1312	2425	2306



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.5	3.3
10°-20°	710.2	9.4
20°-30°	1061.7	14.1
30°-40°	1259.5	16.7
40°-50°	1296.3	17.2
50°-60°	1189.2	15.8
60°-70°	961.5	12.8
70°-80°	624.0	8.3
80°-90°	172.1	2.3
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°	2021.4	26.9
0°-40°	3280.8	43.6
0°-60°	5766.4	76.6
0°-90°	7524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7524.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2640	2640	2640	2640	2640	
5°	2638	2620	2630	2628	2625	250
15°	2509	2499	2522	2532	2540	707
25°	2267	2270	2311	2331	2349	1043
35°	1940	1955	2020	2064	2092	1213
45°	1569	1595	1677	1757	1803	1211
55°	1182	1218	1329	1438	1486	1056
65°	788	835	974	1103	1154	779
75°	399	474	634	708	708	424
85°	85	144	157	152	149	104
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2640.5	2640.5	2640.5	2640.5	2640.5
2.5°	2650.8	2630.2	2640.5	2638.0	2625.1
5°	2638.0	2619.9	2630.2	2627.7	2625.1
7.5°	2619.9	2601.9	2614.8	2612.2	2614.8
10°	2589.0	2573.6	2589.0	2591.6	2591.6
12.5°	2550.4	2537.5	2558.1	2563.2	2568.4
15°	2509.2	2498.8	2522.0	2532.3	2540.1
17.5°	2457.6	2449.9	2478.2	2491.1	2501.4
20°	2401.0	2398.4	2429.3	2442.2	2455.1
22.5°	2336.5	2336.5	2372.6	2388.1	2406.1
25°	2267.0	2269.6	2310.8	2331.4	2349.4
27.5°	2192.3	2194.9	2243.8	2269.6	2290.2
30°	2109.9	2120.2	2171.7	2205.2	2228.4
32.5°	2027.4	2040.3	2097.0	2135.6	2161.4
35°	1939.8	1955.3	2019.7	2063.5	2091.8
37.5°	1849.7	1867.7	1937.2	1986.2	2019.7
40°	1759.5	1780.1	1852.2	1908.9	1947.6
42.5°	1664.2	1687.4	1767.2	1834.2	1875.4
45°	1568.9	1594.6	1677.1	1756.9	1803.3
47.5°	1473.5	1504.5	1592.0	1679.6	1728.6
50°	1375.7	1406.6	1499.3	1599.8	1648.7
52.5°	1277.8	1313.8	1416.9	1519.9	1568.9
55°	1182.4	1218.5	1329.3	1437.5	1486.4
57.5°	1084.6	1120.6	1241.7	1355.0	1404.0
60°	984.1	1025.3	1151.5	1267.5	1321.6
62.5°	886.2	930.0	1063.9	1187.6	1239.1
65°	788.3	834.7	973.8	1102.6	1154.1
67.5°	687.8	741.9	886.2	1017.6	1071.7
70°	589.9	649.2	801.2	932.6	984.1
72.5°	494.6	559.0	716.2	850.1	881.0
75°	399.3	474.0	633.7	708.4	708.4
77.5°	309.1	391.6	541.0	569.3	584.8
80°	224.1	314.3	407.0	440.5	435.4
82.5°	149.4	239.6	291.1	291.1	283.4
85°	85.0	144.3	157.1	152.0	149.4
87.5°	36.1	54.1	48.9	38.6	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)