

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: P260791

Luminaire Tested: **24CZ-LD5-75-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260791
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7879.0 lumens
Efficiency: N/A
Efficacy: 129.1 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

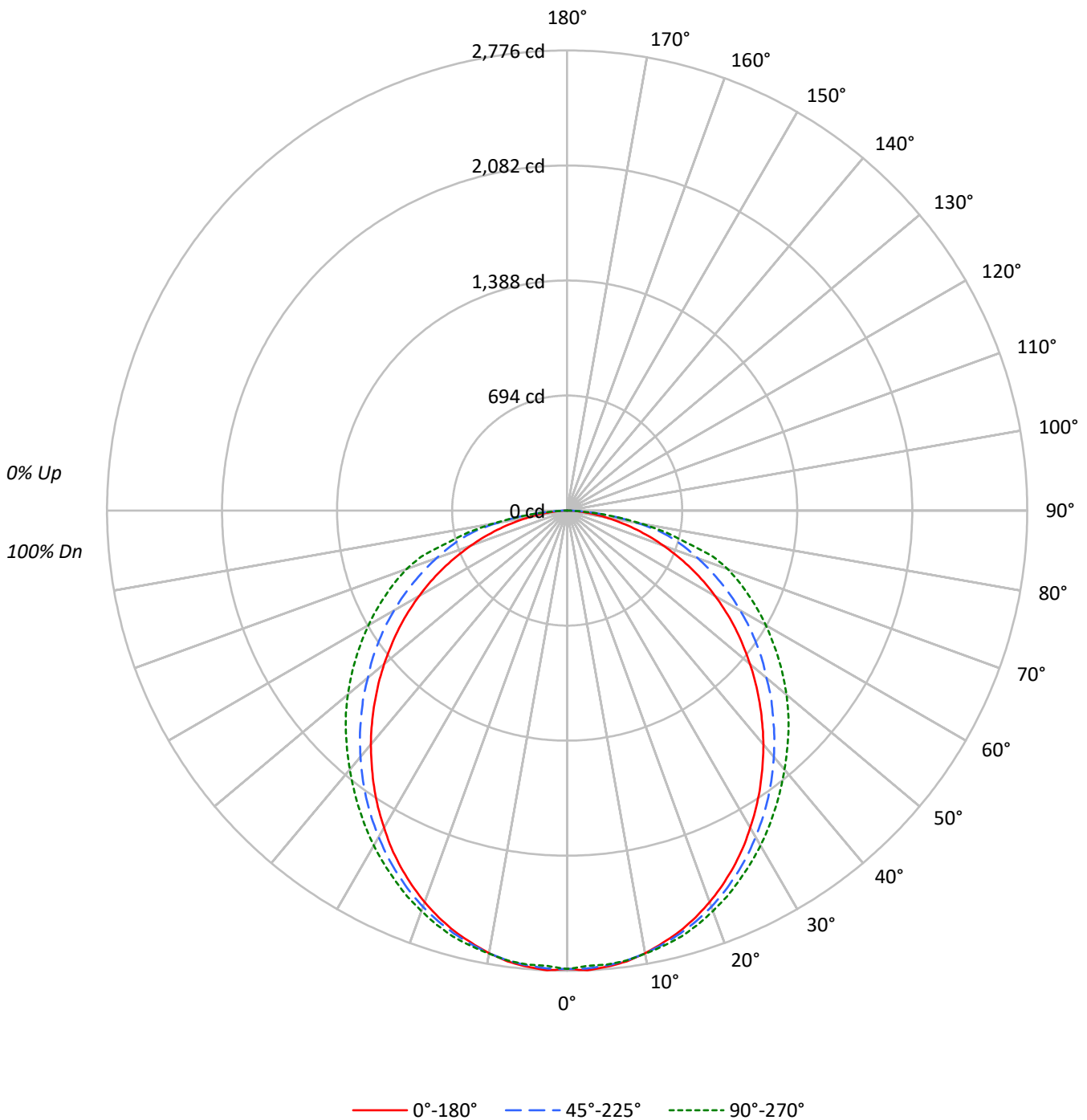
Input Watts (W): 61.008
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3720	3720	3720
5°	3731	3720	3713
10°	3704	3704	3708
15°	3660	3679	3705
20°	3600	3642	3681
25°	3524	3592	3653
30°	3433	3533	3625
35°	3337	3474	3598
40°	3236	3407	3582
45°	3126	3342	3593
50°	3015	3286	3614
55°	2905	3265	3651
60°	2773	3245	3724
65°	2628	3246	3848
70°	2430	3301	4054
75°	2174	3450	3857
80°	1819	3302	3532
85°	1374	2541	2416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.3	3.3
10°-20°	743.7	9.4
20°-30°	1111.8	14.1
30°-40°	1318.9	16.7
40°-50°	1357.5	17.2
50°-60°	1245.3	15.8
60°-70°	1006.9	12.8
70°-80°	653.5	8.3
80°-90°	180.2	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°	2116.7	26.9
0°-40°	3435.6	43.6
0°-60°	6038.4	76.6
0°-90°	7879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2765	2765	2765	2765	2765	
5°	2762	2744	2754	2752	2749	262
15°	2628	2617	2641	2652	2660	740
25°	2374	2377	2420	2441	2460	1093
35°	2031	2048	2115	2161	2190	1270
45°	1643	1670	1756	1840	1888	1268
55°	1238	1276	1392	1505	1557	1106
65°	826	874	1020	1155	1209	816
75°	418	496	664	742	742	444
85°	89	151	165	159	156	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2765.1	2765.1	2765.1	2765.1	2765.1
2.5°	2775.9	2754.3	2765.1	2762.4	2748.9
5°	2762.4	2743.5	2754.3	2751.6	2748.9
7.5°	2743.5	2724.7	2738.1	2735.4	2738.1
10°	2711.2	2695.0	2711.2	2713.9	2713.9
12.5°	2670.7	2657.2	2678.8	2684.2	2689.6
15°	2627.5	2616.7	2641.0	2651.8	2659.9
17.5°	2573.6	2565.5	2595.2	2608.7	2619.4
20°	2514.2	2511.5	2543.9	2557.4	2570.9
22.5°	2446.8	2446.8	2484.6	2500.7	2519.6
25°	2374.0	2376.7	2419.8	2441.4	2460.3
27.5°	2295.7	2298.4	2349.7	2376.7	2398.2
30°	2209.4	2220.2	2274.1	2309.2	2333.5
32.5°	2123.1	2136.6	2195.9	2236.4	2263.4
35°	2031.4	2047.5	2115.0	2160.8	2190.5
37.5°	1936.9	1955.8	2028.7	2079.9	2115.0
40°	1842.5	1864.1	1939.6	1999.0	2039.4
42.5°	1742.7	1767.0	1850.6	1920.7	1963.9
45°	1642.9	1669.9	1756.2	1839.8	1888.4
47.5°	1543.1	1575.4	1667.2	1758.9	1810.1
50°	1440.6	1472.9	1570.0	1675.3	1726.5
52.5°	1338.0	1375.8	1483.7	1591.6	1642.9
55°	1238.2	1276.0	1392.0	1505.3	1556.6
57.5°	1135.7	1173.5	1300.3	1419.0	1470.2
60°	1030.5	1073.7	1205.9	1327.3	1383.9
62.5°	928.0	973.9	1114.1	1243.6	1297.6
65°	825.5	874.0	1019.7	1154.6	1208.6
67.5°	720.3	776.9	928.0	1065.6	1122.2
70°	617.8	679.8	839.0	976.6	1030.5
72.5°	518.0	585.4	750.0	890.2	922.6
75°	418.1	496.4	663.6	741.9	741.9
77.5°	323.7	410.0	566.5	596.2	612.4
80°	234.7	329.1	426.2	461.3	455.9
82.5°	156.5	250.9	304.8	304.8	296.7
85°	89.0	151.1	164.6	159.2	156.5
87.5°	37.8	56.7	51.3	40.5	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)