

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: P261210

Luminaire Tested: **24CZ-LD5-75-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261210
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8016.0 lumens
Efficiency: N/A
Efficacy: 133.4 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

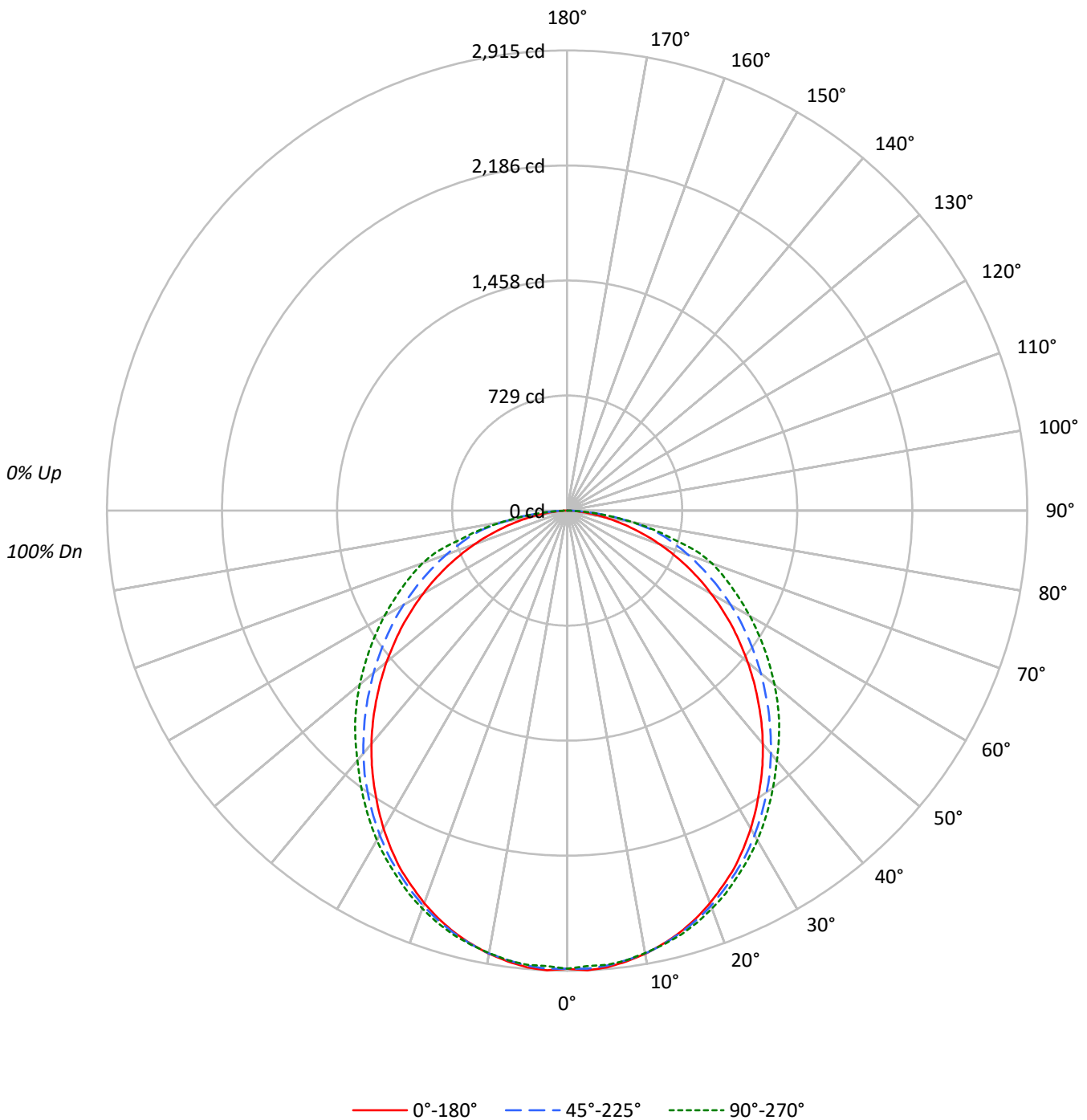
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3904	3904	3904
5°	3923	3909	3901
10°	3896	3892	3888
15°	3853	3860	3875
20°	3789	3815	3842
25°	3714	3754	3793
30°	3613	3688	3746
35°	3500	3610	3684
40°	3387	3528	3631
45°	3258	3436	3614
50°	3126	3350	3590
55°	2991	3278	3579
60°	2835	3223	3596
65°	2666	3184	3668
70°	2455	3200	3840
75°	2177	3314	3577
80°	1819	3141	3224
85°	1359	2512	2306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	3.4
10°-20°	780.3	9.7
20°-30°	1162.9	14.5
30°-40°	1368.9	17.1
40°-50°	1391.1	17.4
50°-60°	1250.7	15.6
60°-70°	988.0	12.3
70°-80°	626.8	7.8
80°-90°	173.0	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°	2217.5	27.7
0°-40°	3586.4	44.7
0°-60°	6228.1	77.7
0°-90°	8016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2902	2902	2902	2902	2902	
5°	2905	2881	2894	2889	2889	275
15°	2766	2753	2771	2779	2782	779
25°	2502	2499	2528	2544	2555	1150
35°	2131	2144	2198	2222	2243	1333
45°	1712	1736	1806	1859	1899	1321
55°	1275	1307	1398	1488	1526	1139
65°	838	880	1000	1110	1152	830
75°	419	491	638	694	688	446
85°	88	152	163	149	149	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2901.9	2901.9	2901.9	2901.9	2901.9
2.5°	2915.3	2893.9	2904.6	2899.3	2888.6
5°	2904.6	2880.6	2893.9	2888.6	2888.6
7.5°	2880.6	2861.9	2872.6	2869.9	2872.6
10°	2851.3	2832.6	2848.6	2848.6	2845.9
12.5°	2811.3	2795.3	2813.9	2813.9	2816.6
15°	2765.9	2752.6	2771.2	2779.2	2781.9
17.5°	2709.9	2696.6	2720.6	2728.6	2736.6
20°	2645.9	2640.6	2664.6	2672.6	2683.2
22.5°	2573.9	2573.9	2597.9	2608.5	2624.5
25°	2501.9	2499.2	2528.5	2544.5	2555.2
27.5°	2416.5	2419.2	2456.5	2472.5	2485.9
30°	2325.8	2331.2	2373.8	2392.5	2411.2
32.5°	2229.8	2240.5	2288.5	2309.8	2328.5
35°	2131.1	2144.4	2197.8	2221.8	2243.1
37.5°	2032.4	2051.1	2107.1	2131.1	2155.1
40°	1928.4	1944.4	2008.4	2037.8	2067.1
42.5°	1821.7	1843.1	1907.1	1949.7	1984.4
45°	1712.4	1736.4	1805.7	1859.1	1899.1
47.5°	1603.0	1635.0	1701.7	1773.7	1808.4
50°	1493.6	1525.7	1600.3	1680.4	1715.0
52.5°	1381.6	1413.6	1499.0	1581.7	1619.0
55°	1274.9	1306.9	1397.6	1488.3	1525.7
57.5°	1162.9	1197.6	1298.9	1392.3	1429.6
60°	1053.6	1088.2	1197.6	1296.3	1336.3
62.5°	946.9	984.2	1098.9	1202.9	1242.9
65°	837.5	880.2	1000.2	1109.6	1152.2
67.5°	730.8	778.8	904.2	1018.9	1064.2
70°	624.1	680.1	813.5	930.9	976.2
72.5°	520.1	581.5	722.8	840.2	864.2
75°	418.8	490.8	637.5	693.5	688.1
77.5°	322.7	402.8	541.4	552.1	568.1
80°	234.7	322.7	405.4	426.8	416.1
82.5°	154.7	242.7	290.7	280.1	277.4
85°	88.0	152.0	162.7	149.4	149.4
87.5°	37.3	61.3	53.3	40.0	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)