

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: P261189

Luminaire Tested: **24CZ-LD5-65-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261189
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-LD5-65-S-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6773.0 lumens
Efficiency: N/A
Efficacy: 135.9 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

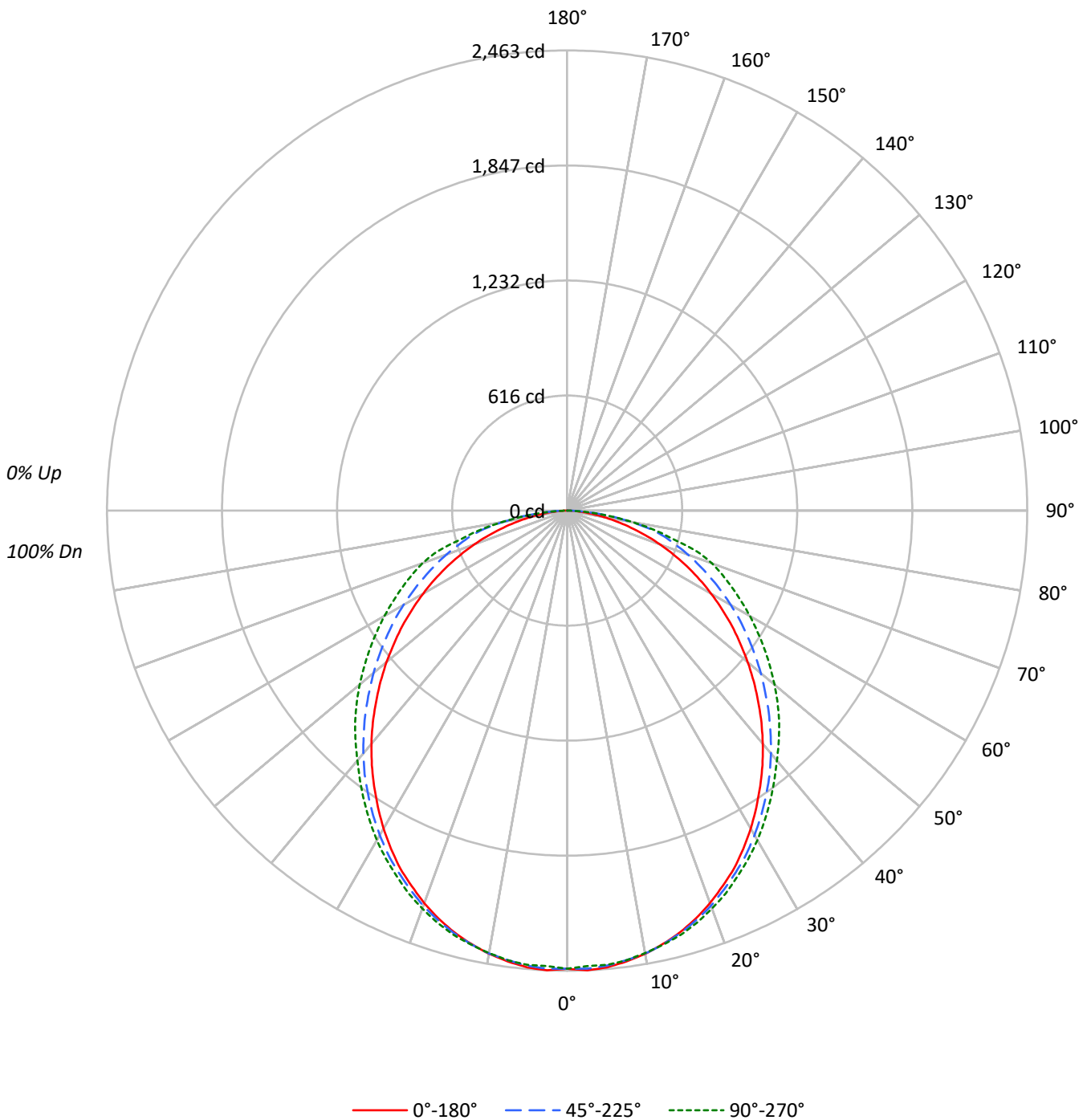
Input Watts (W): 49.848
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3299	3299	3299
5°	3315	3303	3296
10°	3291	3288	3285
15°	3255	3262	3274
20°	3201	3224	3246
25°	3138	3172	3205
30°	3053	3116	3165
35°	2958	3050	3113
40°	2862	2981	3068
45°	2753	2903	3053
50°	2642	2830	3033
55°	2527	2770	3024
60°	2396	2723	3038
65°	2253	2691	3100
70°	2074	2704	3245
75°	1839	2800	3022
80°	1537	2655	2724
85°	1149	2123	1948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.8	3.4
10°-20°	659.3	9.7
20°-30°	982.5	14.5
30°-40°	1156.6	17.1
40°-50°	1175.4	17.4
50°-60°	1056.7	15.6
60°-70°	834.8	12.3
70°-80°	529.6	7.8
80°-90°	146.2	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°	1873.7	27.7
0°-40°	3030.3	44.7
0°-60°	5262.4	77.7
0°-90°	6773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2452	2452	2452	2452	2452	
5°	2454	2434	2445	2441	2441	233
15°	2337	2326	2342	2348	2350	658
25°	2114	2112	2136	2150	2159	972
35°	1801	1812	1857	1877	1895	1127
45°	1447	1467	1526	1571	1605	1116
55°	1077	1104	1181	1258	1289	962
65°	708	744	845	938	974	701
75°	354	415	539	586	581	377
85°	74	128	138	126	126	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2452.0	2452.0	2452.0	2452.0	2452.0
2.5°	2463.2	2445.2	2454.2	2449.7	2440.7
5°	2454.2	2433.9	2445.2	2440.7	2440.7
7.5°	2433.9	2418.1	2427.2	2424.9	2427.2
10°	2409.1	2393.4	2406.9	2406.9	2404.6
12.5°	2375.3	2361.8	2377.6	2377.6	2379.8
15°	2337.0	2325.7	2341.5	2348.3	2350.5
17.5°	2289.7	2278.4	2298.7	2305.5	2312.2
20°	2235.6	2231.1	2251.4	2258.1	2267.2
22.5°	2174.8	2174.8	2195.0	2204.1	2217.6
25°	2113.9	2111.7	2136.4	2150.0	2159.0
27.5°	2041.8	2044.0	2075.6	2089.1	2100.4
30°	1965.2	1969.7	2005.7	2021.5	2037.3
32.5°	1884.0	1893.1	1933.6	1951.6	1967.4
35°	1800.7	1811.9	1857.0	1877.3	1895.3
37.5°	1717.3	1733.0	1780.4	1800.7	1820.9
40°	1629.4	1642.9	1697.0	1721.8	1746.6
42.5°	1539.2	1557.3	1611.3	1647.4	1676.7
45°	1446.8	1467.1	1525.7	1570.8	1604.6
47.5°	1354.4	1381.5	1437.8	1498.7	1528.0
50°	1262.0	1289.1	1352.2	1419.8	1449.1
52.5°	1167.4	1194.4	1266.5	1336.4	1368.0
55°	1077.2	1104.3	1180.9	1257.5	1289.1
57.5°	982.6	1011.9	1097.5	1176.4	1207.9
60°	890.2	919.5	1011.9	1095.3	1129.1
62.5°	800.0	831.6	928.5	1016.4	1050.2
65°	707.6	743.7	845.1	937.5	973.6
67.5°	617.5	658.1	764.0	860.9	899.2
70°	527.3	574.7	687.4	786.5	824.8
72.5°	439.5	491.3	610.7	709.9	730.2
75°	353.8	414.7	538.6	585.9	581.4
77.5°	272.7	340.3	457.5	466.5	480.0
80°	198.3	272.7	342.6	360.6	351.6
82.5°	130.7	205.1	245.6	236.6	234.4
85°	74.4	128.5	137.5	126.2	126.2
87.5°	31.6	51.8	45.1	33.8	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)