

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: P261192

Luminaire Tested: **24CZ-LD5-65-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261192
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-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: 6950.0 lumens
Efficiency: N/A
Efficacy: 138.1 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

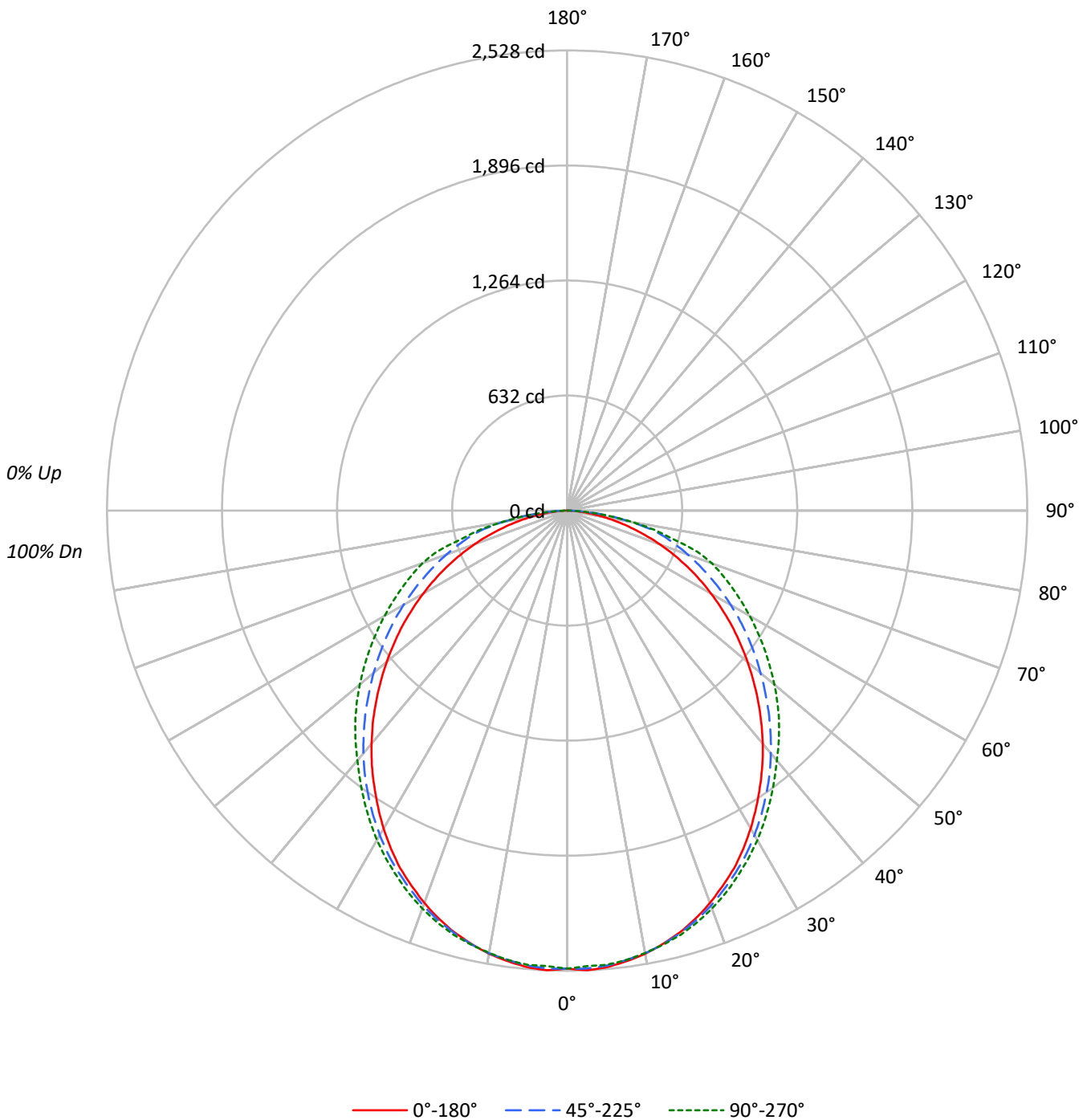
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3385	3385	3385
5°	3401	3389	3383
10°	3377	3374	3371
15°	3340	3347	3360
20°	3285	3308	3331
25°	3220	3255	3289
30°	3133	3198	3248
35°	3035	3130	3194
40°	2937	3058	3148
45°	2825	2979	3133
50°	2711	2904	3113
55°	2593	2843	3103
60°	2458	2794	3118
65°	2312	2761	3181
70°	2129	2775	3330
75°	1888	2873	3101
80°	1577	2724	2796
85°	1178	2178	1999



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	3.4
10°-20°	676.5	9.7
20°-30°	1008.2	14.5
30°-40°	1186.8	17.1
40°-50°	1206.1	17.4
50°-60°	1084.3	15.6
60°-70°	856.6	12.3
70°-80°	543.5	7.8
80°-90°	150.0	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°	1922.6	27.7
0°-40°	3109.4	44.7
0°-60°	5399.9	77.7
0°-90°	6950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2516	2516	2516	2516	2516	
5°	2518	2498	2509	2504	2504	239
15°	2398	2386	2403	2410	2412	675
25°	2169	2167	2192	2206	2215	997
35°	1848	1859	1906	1926	1945	1156
45°	1485	1506	1566	1612	1646	1146
55°	1105	1133	1212	1290	1323	987
65°	726	763	867	962	999	719
75°	363	426	553	601	597	386
85°	76	132	141	130	130	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2516.0	2516.0	2516.0	2516.0	2516.0
2.5°	2527.6	2509.1	2518.3	2513.7	2504.5
5°	2518.3	2497.5	2509.1	2504.5	2504.5
7.5°	2497.5	2481.3	2490.6	2488.3	2490.6
10°	2472.1	2455.9	2469.8	2469.8	2467.5
12.5°	2437.4	2423.5	2439.7	2439.7	2442.0
15°	2398.1	2386.5	2402.7	2409.7	2412.0
17.5°	2349.5	2338.0	2358.8	2365.7	2372.7
20°	2294.0	2289.4	2310.2	2317.2	2326.4
22.5°	2231.6	2231.6	2252.4	2261.7	2275.5
25°	2169.1	2166.8	2192.3	2206.1	2215.4
27.5°	2095.1	2097.5	2129.8	2143.7	2155.3
30°	2016.5	2021.1	2058.1	2074.3	2090.5
32.5°	1933.3	1942.5	1984.1	2002.6	2018.8
35°	1847.7	1859.3	1905.5	1926.3	1944.8
37.5°	1762.1	1778.3	1826.9	1847.7	1868.5
40°	1672.0	1685.8	1741.3	1766.8	1792.2
42.5°	1579.5	1598.0	1653.5	1690.5	1720.5
45°	1484.6	1505.5	1565.6	1611.8	1646.5
47.5°	1389.8	1417.6	1475.4	1537.8	1567.9
50°	1295.0	1322.8	1387.5	1456.9	1487.0
52.5°	1197.9	1225.6	1299.6	1371.3	1403.7
55°	1105.4	1133.1	1211.8	1290.4	1322.8
57.5°	1008.3	1038.3	1126.2	1207.1	1239.5
60°	913.4	943.5	1038.3	1123.9	1158.6
62.5°	820.9	853.3	952.8	1042.9	1077.6
65°	726.1	763.1	867.2	962.0	999.0
67.5°	633.6	675.3	783.9	883.4	922.7
70°	541.1	589.7	705.3	807.1	846.4
72.5°	450.9	504.1	626.7	728.4	749.3
75°	363.1	425.5	552.7	601.3	596.6
77.5°	279.8	349.2	469.4	478.7	492.6
80°	203.5	279.8	351.5	370.0	360.8
82.5°	134.1	210.4	252.1	242.8	240.5
85°	76.3	131.8	141.1	129.5	129.5
87.5°	32.4	53.2	46.3	34.7	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)