

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: P276247

Luminaire Tested: **24CZ2-65HE-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-65HE-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5829.2 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

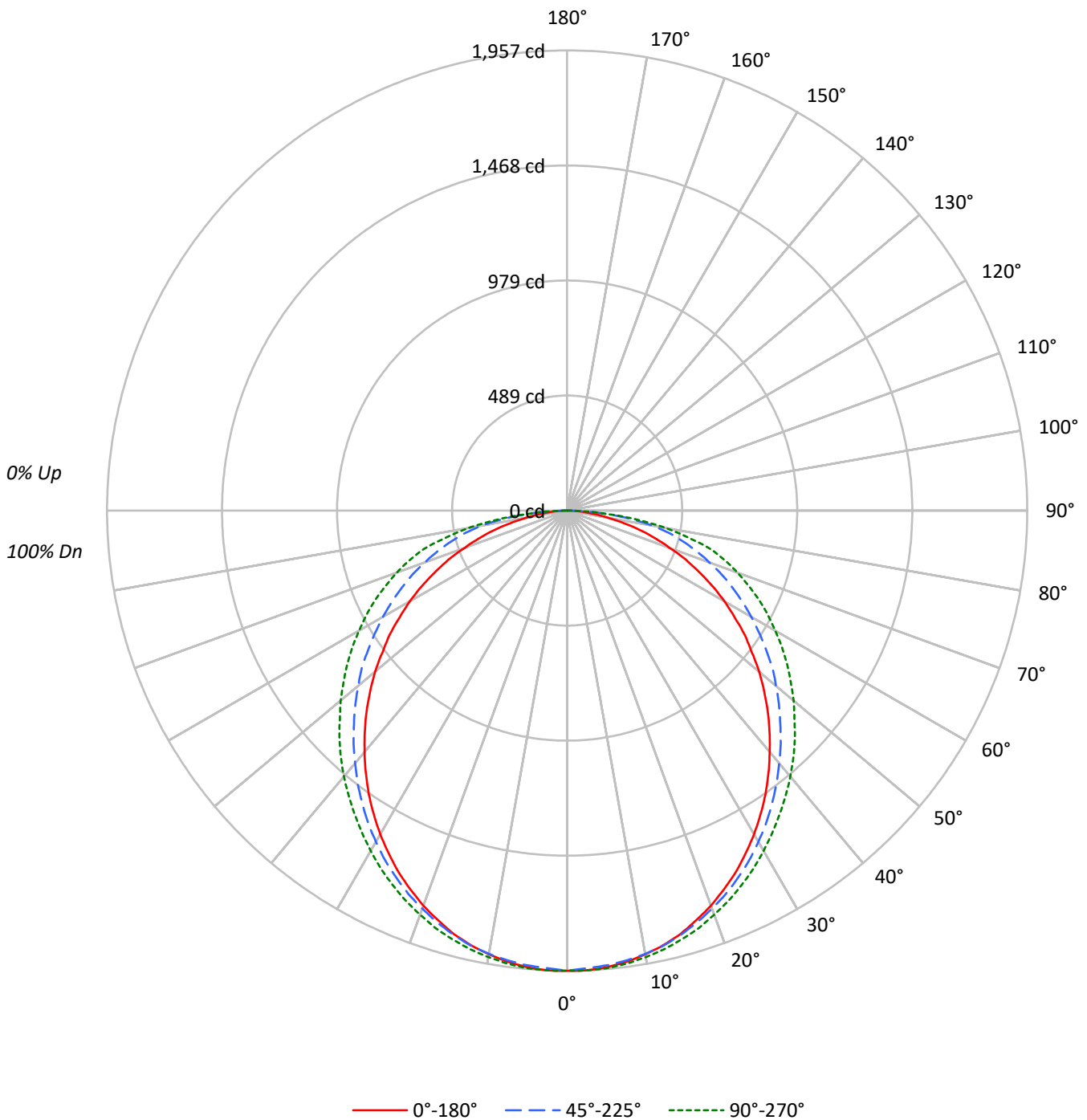
Input Watts (W): 50.406  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	2633	2633	2633
5°	2633	2622	2638
10°	2618	2616	2634
15°	2596	2602	2629
20°	2560	2579	2618
25°	2519	2556	2608
30°	2470	2527	2596
35°	2416	2496	2588
40°	2354	2464	2594
45°	2295	2440	2606
50°	2232	2427	2631
55°	2163	2423	2679
60°	2079	2434	2749
65°	1970	2471	2868
70°	1829	2533	3031
75°	1669	2660	3287
80°	1371	2864	3286
85°	1051	2643	2824



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.1	3.2
10°-20°	528.4	9.1
20°-30°	795.2	13.6
30°-40°	953.0	16.3
40°-50°	993.1	17.0
50°-60°	924.0	15.9
60°-70°	761.0	13.1
70°-80°	518.3	8.9
80°-90°	171.1	2.9
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°	1508.8	25.9
0°-40°	2461.7	42.2
0°-60°	4378.8	75.1
0°-90°	5829.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5829.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1957	1957	1957	1957	1957	
5°	1949	1949	1942	1951	1953	185
15°	1864	1866	1868	1885	1887	525
25°	1696	1704	1722	1751	1757	781
35°	1471	1488	1519	1560	1576	919
45°	1206	1232	1282	1346	1370	930
55°	922	953	1033	1115	1142	822
65°	619	671	776	868	901	614
75°	321	393	512	603	632	338
85°	68	132	171	183	183	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1957.2	1957.2	1957.2	1957.2	1957.2
2.5°	1957.2	1957.2	1947.4	1957.2	1957.2
5°	1949.4	1949.4	1941.6	1951.3	1953.3
7.5°	1935.8	1937.7	1929.9	1941.6	1943.5
10°	1916.3	1918.2	1914.4	1926.0	1928.0
12.5°	1893.0	1894.9	1894.9	1908.5	1910.5
15°	1863.8	1865.7	1867.7	1885.2	1887.1
17.5°	1826.8	1832.6	1836.5	1857.9	1861.8
20°	1787.9	1793.7	1801.5	1824.9	1828.7
22.5°	1743.1	1750.9	1764.5	1789.8	1795.7
25°	1696.5	1704.2	1721.7	1750.9	1756.8
27.5°	1643.9	1655.6	1677.0	1708.1	1715.9
30°	1589.5	1601.1	1626.4	1659.5	1671.2
32.5°	1531.1	1546.7	1575.8	1612.8	1624.5
35°	1470.8	1488.3	1519.4	1560.3	1575.8
37.5°	1406.6	1426.0	1463.0	1507.7	1527.2
40°	1340.4	1363.8	1402.7	1455.2	1476.6
42.5°	1274.3	1295.7	1344.3	1400.7	1424.1
45°	1206.2	1231.5	1282.1	1346.3	1369.6
47.5°	1136.2	1161.5	1221.8	1289.9	1311.3
50°	1066.1	1091.4	1159.5	1231.5	1256.8
52.5°	990.2	1023.3	1101.1	1173.1	1198.4
55°	922.2	953.3	1033.0	1114.8	1142.0
57.5°	844.3	881.3	968.8	1054.4	1083.6
60°	772.4	811.3	904.6	992.2	1021.4
62.5°	698.4	741.2	840.4	929.9	963.0
65°	618.7	671.2	776.2	867.7	900.8
67.5°	546.7	601.2	712.0	805.4	834.6
70°	465.0	531.1	644.0	737.3	770.4
72.5°	394.9	461.1	579.8	671.2	704.3
75°	321.0	393.0	511.7	603.1	632.3
77.5°	247.1	326.8	445.5	515.6	525.3
80°	177.0	260.7	369.6	410.5	424.1
82.5°	124.5	200.4	272.4	299.6	307.4
85°	68.1	132.3	171.2	182.9	182.9
87.5°	29.2	56.4	68.1	70.0	72.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)