

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: P276246

Luminaire Tested: **24CZ2-65HE-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276246
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-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5803.7 lumens
Efficiency: N/A
Efficacy: 115.4 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

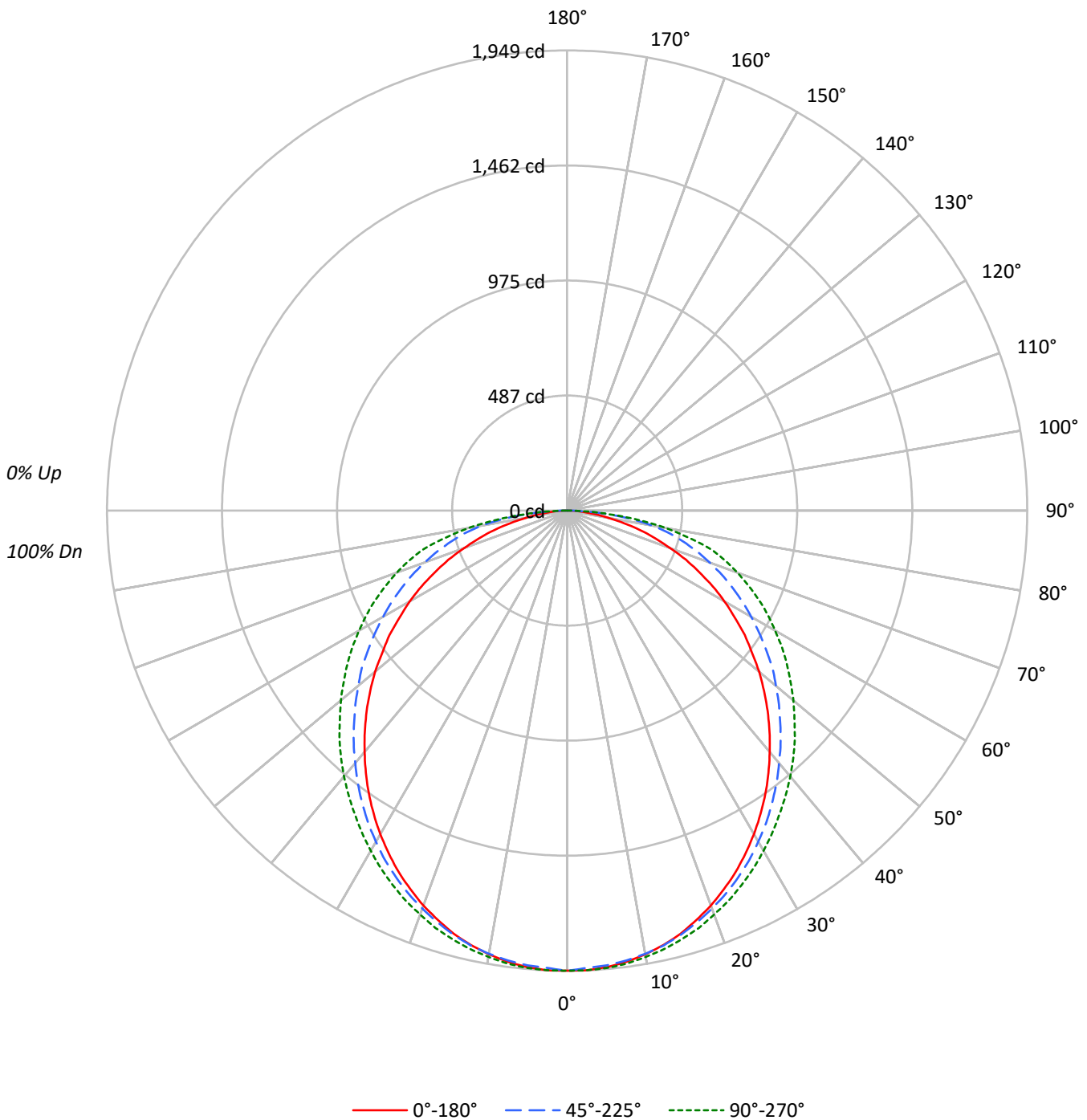
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2622	2622	2622
5°	2621	2611	2627
10°	2607	2604	2623
15°	2585	2590	2617
20°	2549	2568	2607
25°	2507	2545	2597
30°	2459	2516	2585
35°	2405	2485	2577
40°	2344	2453	2582
45°	2285	2429	2595
50°	2222	2416	2619
55°	2154	2413	2667
60°	2069	2424	2736
65°	1961	2460	2855
70°	1821	2522	3017
75°	1661	2648	3273
80°	1366	2851	3272
85°	1047	2632	2811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.3	3.2
10°-20°	526.1	9.1
20°-30°	791.7	13.6
30°-40°	948.8	16.3
40°-50°	988.8	17.0
50°-60°	919.9	15.9
60°-70°	757.7	13.1
70°-80°	516.0	8.9
80°-90°	170.4	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°	1502.2	25.9
0°-40°	2451.0	42.2
0°-60°	4359.7	75.1
0°-90°	5803.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5803.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1949	1949	1949	1949	1949	
5°	1941	1941	1933	1943	1945	184
15°	1856	1858	1860	1877	1879	523
25°	1689	1697	1714	1743	1749	778
35°	1464	1482	1513	1553	1569	915
45°	1201	1226	1276	1340	1364	926
55°	918	949	1028	1110	1137	818
65°	616	668	773	864	897	611
75°	320	391	509	600	630	337
85°	68	132	170	182	182	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1948.6	1948.6	1948.6	1948.6	1948.6
2.5°	1948.6	1948.6	1938.9	1948.6	1948.6
5°	1940.8	1940.8	1933.1	1942.8	1944.7
7.5°	1927.3	1929.2	1921.5	1933.1	1935.0
10°	1907.9	1909.8	1906.0	1917.6	1919.5
12.5°	1884.7	1886.6	1886.6	1900.2	1902.1
15°	1855.6	1857.5	1859.5	1876.9	1878.8
17.5°	1818.8	1824.6	1828.5	1849.8	1853.7
20°	1780.1	1785.9	1793.6	1816.9	1820.7
22.5°	1735.5	1743.3	1756.8	1782.0	1787.8
25°	1689.0	1696.8	1714.2	1743.3	1749.1
27.5°	1636.7	1648.3	1669.7	1700.6	1708.4
30°	1582.5	1594.1	1619.3	1652.2	1663.8
32.5°	1524.4	1539.9	1568.9	1605.7	1617.4
35°	1464.3	1481.8	1512.8	1553.4	1568.9
37.5°	1400.4	1419.8	1456.6	1501.1	1520.5
40°	1334.6	1357.8	1396.5	1448.8	1470.1
42.5°	1268.7	1290.0	1338.4	1394.6	1417.9
45°	1200.9	1226.1	1276.5	1340.4	1363.6
47.5°	1131.2	1156.4	1216.4	1284.2	1305.5
50°	1061.5	1086.6	1154.4	1226.1	1251.3
52.5°	985.9	1018.8	1096.3	1168.0	1193.2
55°	918.1	949.1	1028.5	1109.9	1137.0
57.5°	840.6	877.4	964.6	1049.8	1078.9
60°	769.0	807.7	900.7	987.8	1016.9
62.5°	695.4	738.0	836.8	925.9	958.8
65°	616.0	668.2	772.8	863.9	896.8
67.5°	544.3	598.5	708.9	801.9	831.0
70°	462.9	528.8	641.1	734.1	767.0
72.5°	393.2	459.1	577.2	668.2	701.2
75°	319.6	391.3	509.4	600.5	629.5
77.5°	246.0	325.4	443.6	513.3	523.0
80°	176.3	259.6	368.0	408.7	422.3
82.5°	124.0	199.5	271.2	298.3	306.0
85°	67.8	131.7	170.5	182.1	182.1
87.5°	29.1	56.2	67.8	69.7	71.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)