

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: P276012

Luminaire Tested: **24CZ2-75HE-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276012
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: 24CZ2-75HE-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5547.9 lumens
Efficiency: N/A
Efficacy: 92.9 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

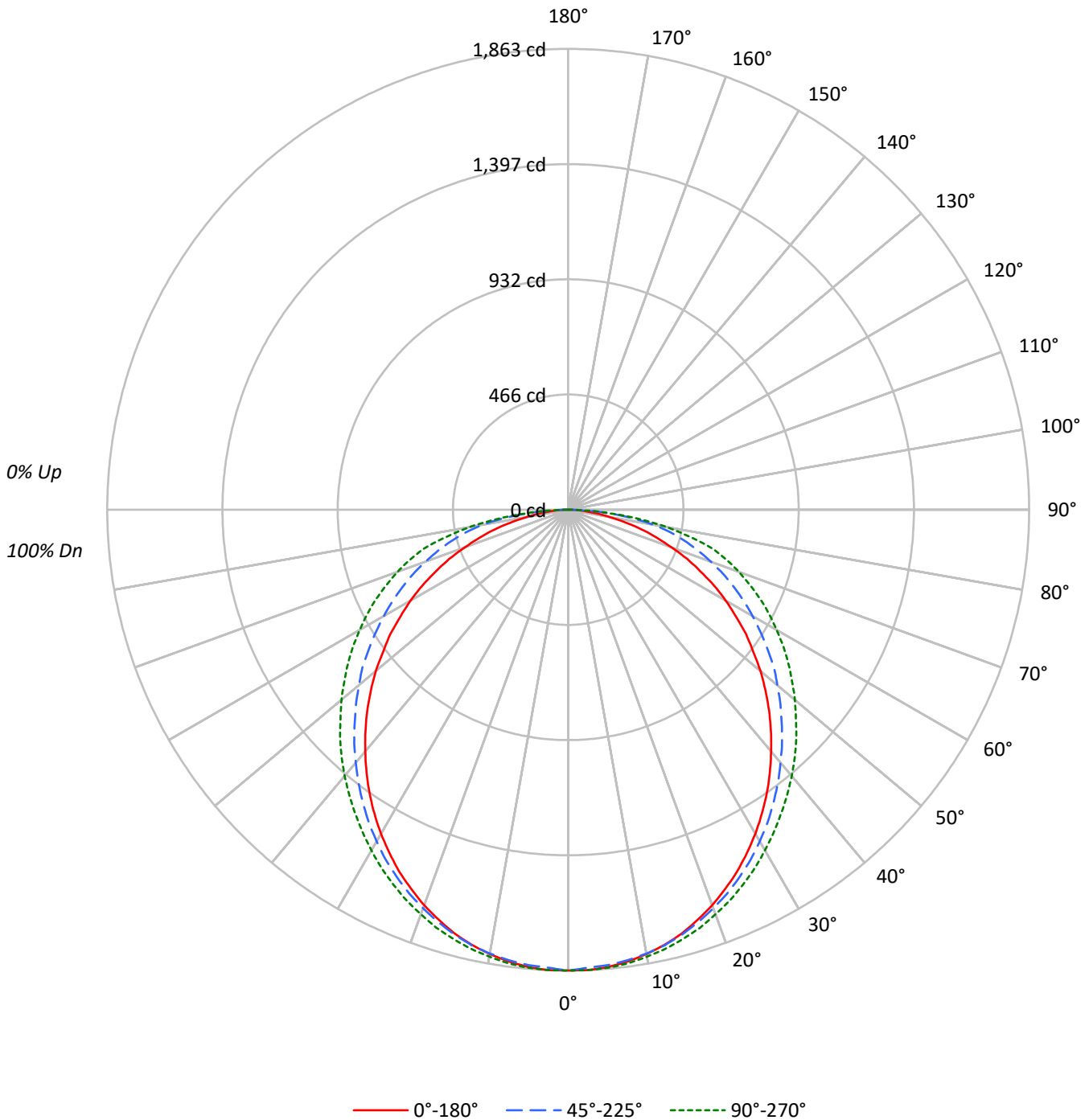
Input Watts (W): 59.747292
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2506	2506	2506
5°	2506	2496	2511
10°	2492	2489	2507
15°	2471	2476	2502
20°	2436	2455	2492
25°	2397	2433	2482
30°	2350	2405	2471
35°	2299	2375	2463
40°	2241	2345	2468
45°	2184	2322	2480
50°	2124	2310	2504
55°	2059	2306	2550
60°	1978	2317	2616
65°	1875	2352	2729
70°	1741	2411	2884
75°	1588	2532	3129
80°	1306	2726	3127
85°	1000	2515	2686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	3.2
10°-20°	502.9	9.1
20°-30°	756.8	13.6
30°-40°	907.0	16.3
40°-50°	945.2	17.0
50°-60°	879.4	15.9
60°-70°	724.3	13.1
70°-80°	493.3	8.9
80°-90°	162.8	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°	1435.9	25.9
0°-40°	2342.9	42.2
0°-60°	4167.5	75.1
0°-90°	5547.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5547.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1863	1863	1863	1863	1863	
5°	1855	1855	1848	1857	1859	176
15°	1774	1776	1778	1794	1796	500
25°	1615	1622	1639	1666	1672	743
35°	1400	1416	1446	1485	1500	875
45°	1148	1172	1220	1281	1304	885
55°	878	907	983	1061	1087	782
65°	589	639	739	826	857	584
75°	306	374	487	574	602	322
85°	65	126	163	174	174	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1862.7	1862.7	1862.7	1862.7	1862.7
2.5°	1862.7	1862.7	1853.4	1862.7	1862.7
5°	1855.3	1855.3	1847.9	1857.1	1859.0
7.5°	1842.3	1844.2	1836.8	1847.9	1849.7
10°	1823.8	1825.6	1821.9	1833.1	1834.9
12.5°	1801.6	1803.4	1803.4	1816.4	1818.2
15°	1773.8	1775.7	1777.5	1794.2	1796.0
17.5°	1738.6	1744.2	1747.9	1768.3	1772.0
20°	1701.6	1707.1	1714.6	1736.8	1740.5
22.5°	1659.0	1666.4	1679.4	1703.4	1709.0
25°	1614.6	1622.0	1638.6	1666.4	1672.0
27.5°	1564.6	1575.7	1596.1	1625.7	1633.1
30°	1512.7	1523.8	1547.9	1579.4	1590.5
32.5°	1457.2	1472.0	1499.8	1535.0	1546.1
35°	1399.8	1416.5	1446.1	1485.0	1499.8
37.5°	1338.7	1357.2	1392.4	1435.0	1453.5
40°	1275.7	1298.0	1335.0	1385.0	1405.3
42.5°	1212.8	1233.1	1279.4	1333.1	1355.4
45°	1148.0	1172.0	1220.2	1281.3	1303.5
47.5°	1081.3	1105.4	1162.8	1227.6	1248.0
50°	1014.7	1038.7	1103.5	1172.0	1196.1
52.5°	942.4	973.9	1048.0	1116.5	1140.6
55°	877.6	907.3	983.2	1061.0	1086.9
57.5°	803.6	838.8	922.1	1003.6	1031.3
60°	735.1	772.1	861.0	944.3	972.1
62.5°	664.7	705.4	799.9	885.1	916.5
65°	588.8	638.8	738.8	825.8	857.3
67.5°	520.3	572.1	677.7	766.6	794.3
70°	442.5	505.5	612.9	701.7	733.2
72.5°	375.9	438.8	551.8	638.8	670.3
75°	305.5	374.0	487.0	574.0	601.8
77.5°	235.1	311.1	424.0	490.7	499.9
80°	168.5	248.1	351.8	390.7	403.6
82.5°	118.5	190.7	259.2	285.1	292.5
85°	64.8	125.9	162.9	174.0	174.0
87.5°	27.8	53.7	64.8	66.7	68.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)