

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: P276013

Luminaire Tested: **24CZ2-75HE-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276013
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-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6061.3 lumens
Efficiency: N/A
Efficacy: 101.8 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

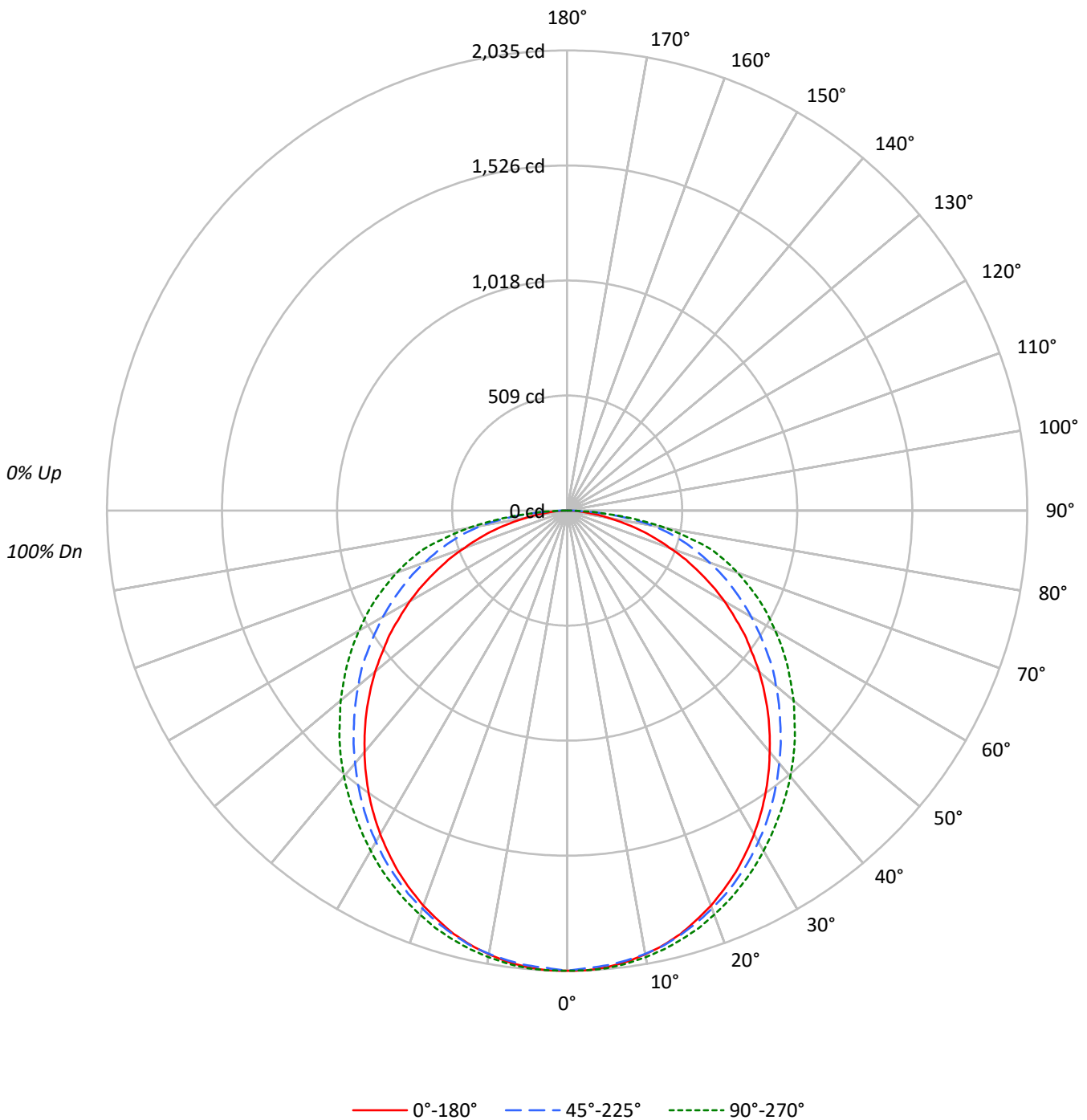
Input Watts (W): 59.513676
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2738	2738	2738
5°	2738	2727	2743
10°	2722	2720	2739
15°	2700	2705	2733
20°	2662	2682	2723
25°	2619	2658	2712
30°	2568	2628	2700
35°	2512	2595	2691
40°	2448	2562	2697
45°	2387	2537	2710
50°	2321	2524	2735
55°	2249	2520	2786
60°	2161	2531	2858
65°	2048	2570	2982
70°	1902	2634	3151
75°	1735	2766	3418
80°	1426	2978	3417
85°	1093	2748	2936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.5	3.2
10°-20°	549.5	9.1
20°-30°	826.9	13.6
30°-40°	990.9	16.3
40°-50°	1032.7	17.0
50°-60°	960.8	15.9
60°-70°	791.3	13.1
70°-80°	538.9	8.9
80°-90°	177.9	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°	1568.8	25.9
0°-40°	2559.8	42.2
0°-60°	4553.2	75.1
0°-90°	6061.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6061.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2035	2035	2035	2035	2035	
5°	2027	2027	2019	2029	2031	192
15°	1938	1940	1942	1960	1962	546
25°	1764	1772	1790	1821	1827	812
35°	1529	1548	1580	1622	1639	956
45°	1254	1280	1333	1400	1424	967
55°	959	991	1074	1159	1188	855
65°	643	698	807	902	937	639
75°	334	409	532	627	658	352
85°	71	138	178	190	190	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2035.1	2035.1	2035.1	2035.1	2035.1
2.5°	2035.1	2035.1	2024.9	2035.1	2035.1
5°	2027.0	2027.0	2018.9	2029.0	2031.0
7.5°	2012.8	2014.8	2006.7	2018.9	2020.9
10°	1992.6	1994.6	1990.6	2002.7	2004.7
12.5°	1968.3	1970.3	1970.3	1984.5	1986.5
15°	1938.0	1940.0	1942.0	1960.2	1962.2
17.5°	1899.5	1905.6	1909.6	1931.9	1935.9
20°	1859.1	1865.1	1873.2	1897.5	1901.5
22.5°	1812.5	1820.6	1834.8	1861.1	1867.2
25°	1764.0	1772.1	1790.3	1820.6	1826.7
27.5°	1709.4	1721.5	1743.8	1776.1	1784.2
30°	1652.7	1664.9	1691.2	1725.6	1737.7
32.5°	1592.0	1608.2	1638.6	1677.0	1689.1
35°	1529.3	1547.5	1579.9	1622.4	1638.6
37.5°	1462.6	1482.8	1521.2	1567.8	1588.0
40°	1393.8	1418.1	1458.5	1513.1	1535.4
42.5°	1325.0	1347.3	1397.8	1456.5	1480.8
45°	1254.2	1280.5	1333.1	1399.9	1424.1
47.5°	1181.4	1207.7	1270.4	1341.2	1363.5
50°	1108.6	1134.9	1205.7	1280.5	1306.8
52.5°	1029.7	1064.1	1145.0	1219.8	1246.1
55°	958.9	991.2	1074.2	1159.1	1187.5
57.5°	877.9	916.4	1007.4	1096.4	1126.8
60°	803.1	843.6	940.7	1031.7	1062.0
62.5°	726.2	770.7	873.9	967.0	1001.3
65°	643.3	697.9	807.1	902.2	936.6
67.5°	568.4	625.1	740.4	837.5	867.8
70°	483.5	552.3	669.6	766.7	801.1
72.5°	410.7	479.4	602.8	697.9	732.3
75°	333.8	408.6	532.0	627.1	657.5
77.5°	256.9	339.9	463.2	536.1	546.2
80°	184.1	271.1	384.4	426.8	441.0
82.5°	129.5	208.4	283.2	311.5	319.6
85°	70.8	137.6	178.0	190.2	190.2
87.5°	30.3	58.7	70.8	72.8	74.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)