

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: P276251

Luminaire Tested: **24CZ2-70HE-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276251
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: 24CZ2-70HE-UNV-L92765-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: 5707.2 lumens
Efficiency: N/A
Efficacy: 106.2 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

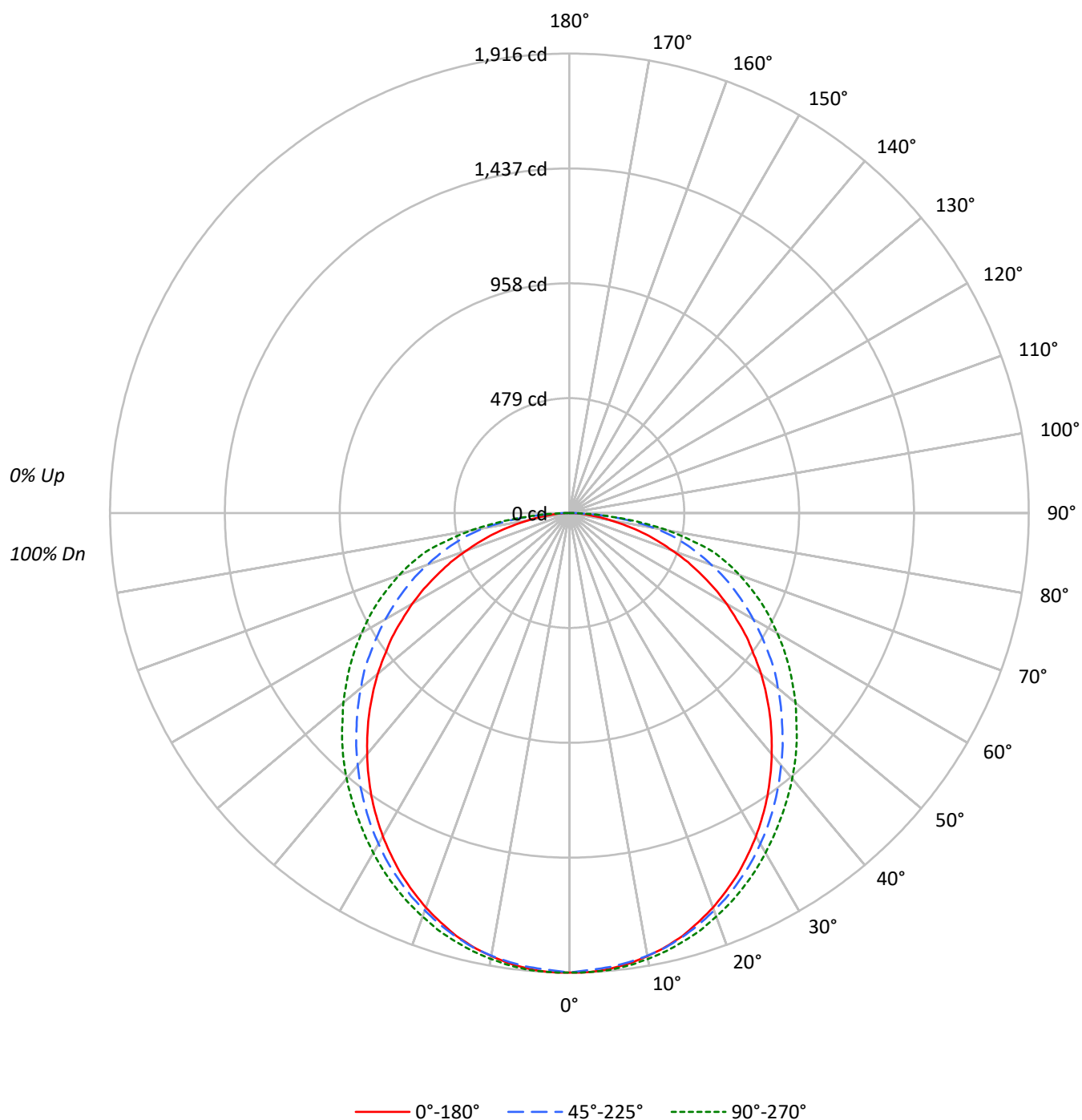
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	98	94	105	100	96	92	96	93	89		92	89	87		82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		67
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		56
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		36
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2578	2578	2578
5°	2578	2567	2583
10°	2563	2561	2579
15°	2542	2547	2574
20°	2506	2525	2564
25°	2466	2503	2553
30°	2418	2474	2542
35°	2365	2443	2534
40°	2305	2412	2539
45°	2247	2388	2551
50°	2185	2376	2576
55°	2118	2373	2623
60°	2035	2383	2691
65°	1928	2420	2808
70°	1791	2480	2967
75°	1634	2604	3218
80°	1343	2804	3217
85°	1030	2587	2763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	3.2
10°-20°	517.4	9.1
20°-30°	778.6	13.6
30°-40°	933.0	16.3
40°-50°	972.3	17.0
50°-60°	904.6	15.9
60°-70°	745.1	13.1
70°-80°	507.4	8.9
80°-90°	167.5	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°	1477.2	25.9
0°-40°	2410.2	42.2
0°-60°	4287.2	75.1
0°-90°	5707.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5707.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1916	1916	1916	1916	1916	
5°	1909	1909	1901	1910	1912	181
15°	1825	1827	1829	1846	1848	514
25°	1661	1669	1686	1714	1720	765
35°	1440	1457	1488	1528	1543	900
45°	1181	1206	1255	1318	1341	911
55°	903	933	1011	1091	1118	805
65°	606	657	760	850	882	601
75°	314	385	501	590	619	331
85°	67	130	168	179	179	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1916.2	1916.2	1916.2	1916.2	1916.2
2.5°	1916.2	1916.2	1906.7	1916.2	1916.2
5°	1908.6	1908.6	1900.9	1910.5	1912.4
7.5°	1895.2	1897.1	1889.5	1900.9	1902.8
10°	1876.2	1878.1	1874.3	1885.7	1887.6
12.5°	1853.3	1855.2	1855.2	1868.6	1870.5
15°	1824.8	1826.7	1828.6	1845.7	1847.6
17.5°	1788.6	1794.3	1798.1	1819.0	1822.8
20°	1750.5	1756.2	1763.8	1786.7	1790.5
22.5°	1706.7	1714.3	1727.6	1752.4	1758.1
25°	1660.9	1668.6	1685.7	1714.3	1720.0
27.5°	1609.5	1620.9	1641.9	1672.4	1680.0
30°	1556.2	1567.6	1592.4	1624.8	1636.2
32.5°	1499.0	1514.3	1542.8	1579.0	1590.5
35°	1440.0	1457.1	1487.6	1527.6	1542.8
37.5°	1377.1	1396.2	1432.4	1476.2	1495.2
40°	1312.4	1335.2	1373.3	1424.8	1445.7
42.5°	1247.6	1268.6	1316.2	1371.4	1394.3
45°	1180.9	1205.7	1255.2	1318.1	1340.9
47.5°	1112.4	1137.1	1196.2	1262.8	1283.8
50°	1043.8	1068.6	1135.2	1205.7	1230.5
52.5°	969.5	1001.9	1078.1	1148.6	1173.3
55°	902.9	933.3	1011.4	1091.4	1118.1
57.5°	826.7	862.9	948.6	1032.4	1060.9
60°	756.2	794.3	885.7	971.4	1000.0
62.5°	683.8	725.7	822.9	910.5	942.9
65°	605.7	657.1	760.0	849.5	881.9
67.5°	535.2	588.6	697.1	788.6	817.1
70°	455.2	520.0	630.5	721.9	754.3
72.5°	386.7	451.4	567.6	657.1	689.5
75°	314.3	384.8	500.9	590.5	619.0
77.5°	241.9	320.0	436.2	504.8	514.3
80°	173.3	255.2	361.9	401.9	415.2
82.5°	121.9	196.2	266.7	293.3	301.0
85°	66.7	129.5	167.6	179.0	179.0
87.5°	28.6	55.2	66.7	68.6	70.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)