

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: P276095

Luminaire Tested: **24CZ2-55HE-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276095
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: 24CZ2-55HE-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5487.8 lumens
Efficiency: N/A
Efficacy: 131.1 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

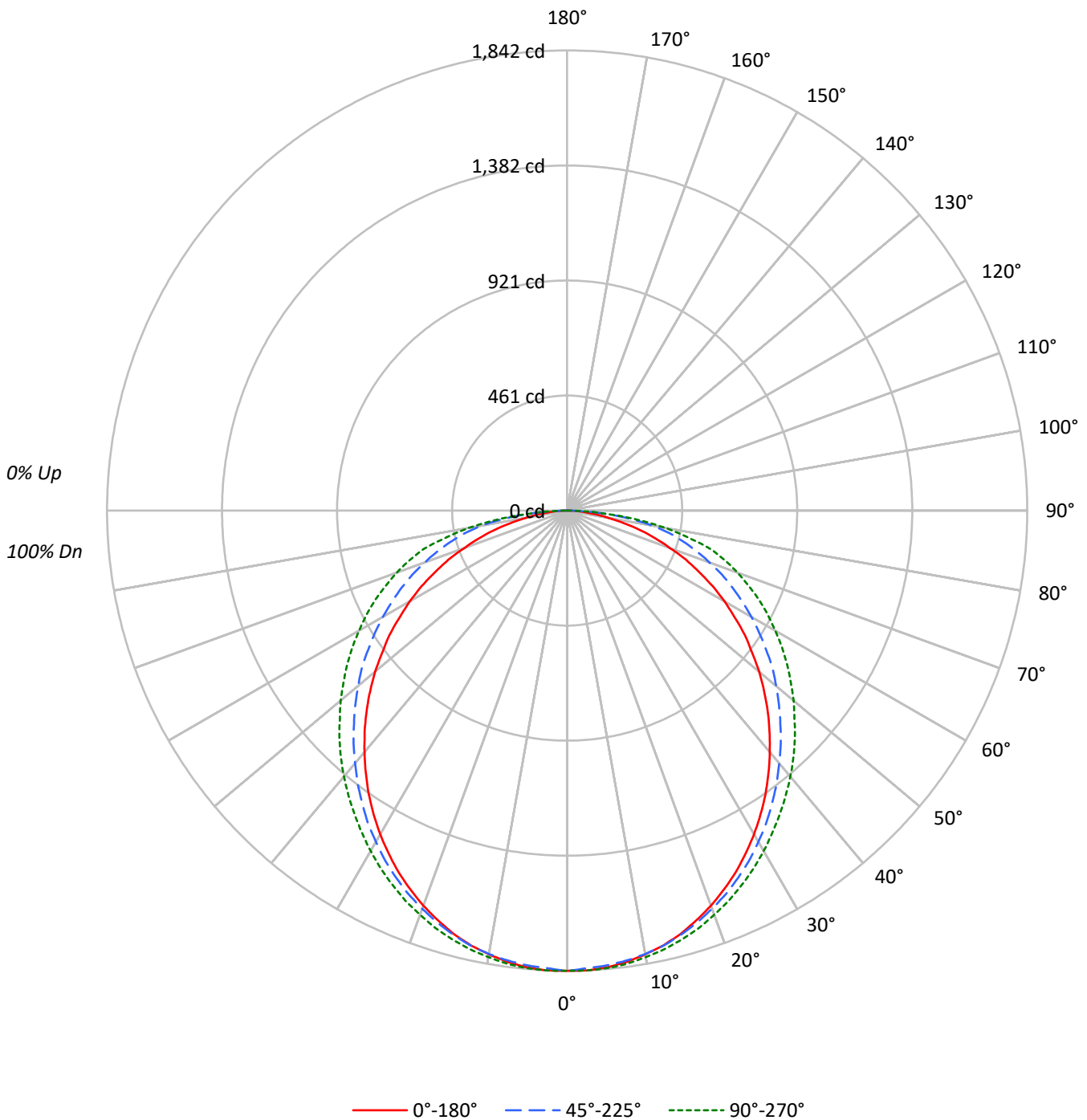
Input Watts (W): 41.85
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2479	2479	2479
5°	2479	2469	2484
10°	2465	2462	2480
15°	2444	2449	2475
20°	2410	2428	2465
25°	2371	2406	2455
30°	2325	2379	2444
35°	2274	2349	2437
40°	2216	2319	2442
45°	2161	2297	2453
50°	2101	2285	2477
55°	2036	2281	2522
60°	1957	2292	2587
65°	1854	2327	2700
70°	1722	2385	2853
75°	1571	2504	3094
80°	1292	2696	3094
85°	990	2489	2658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	3.2
10°-20°	497.5	9.1
20°-30°	748.6	13.6
30°-40°	897.2	16.3
40°-50°	934.9	17.0
50°-60°	869.8	15.9
60°-70°	716.4	13.1
70°-80°	487.9	8.9
80°-90°	161.1	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°	1420.4	25.9
0°-40°	2317.5	42.2
0°-60°	4122.3	75.1
0°-90°	5487.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5487.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1835	1835	1828	1837	1839	174
15°	1755	1756	1758	1775	1777	494
25°	1597	1604	1621	1648	1654	735
35°	1385	1401	1430	1469	1484	866
45°	1136	1159	1207	1267	1289	876
55°	868	897	972	1050	1075	774
65°	582	632	731	817	848	578
75°	302	370	482	568	595	319
85°	64	124	161	172	172	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1842.5	1842.5	1842.5	1842.5	1842.5
2.5°	1842.5	1842.5	1833.3	1842.5	1842.5
5°	1835.2	1835.2	1827.8	1837.0	1838.8
7.5°	1822.3	1824.2	1816.9	1827.8	1829.7
10°	1804.0	1805.9	1802.2	1813.2	1815.0
12.5°	1782.1	1783.9	1783.9	1796.7	1798.5
15°	1754.6	1756.4	1758.2	1774.7	1776.6
17.5°	1719.8	1725.3	1728.9	1749.1	1752.7
20°	1683.2	1688.6	1696.0	1717.9	1721.6
22.5°	1641.0	1648.4	1661.2	1685.0	1690.5
25°	1597.1	1604.4	1620.9	1648.4	1653.8
27.5°	1547.6	1558.6	1578.8	1608.1	1615.4
30°	1496.3	1507.3	1531.1	1562.3	1573.3
32.5°	1441.4	1456.0	1483.5	1518.3	1529.3
35°	1384.6	1401.1	1430.4	1468.9	1483.5
37.5°	1324.2	1342.5	1377.3	1419.4	1437.7
40°	1261.9	1283.9	1320.5	1370.0	1390.1
42.5°	1199.6	1219.8	1265.6	1318.7	1340.7
45°	1135.5	1159.3	1207.0	1267.4	1289.4
47.5°	1069.6	1093.4	1150.2	1214.3	1234.4
50°	1003.7	1027.5	1091.6	1159.3	1183.2
52.5°	932.2	963.4	1036.6	1104.4	1128.2
55°	868.1	897.4	972.5	1049.5	1075.1
57.5°	794.9	829.7	912.1	992.7	1020.1
60°	727.1	763.7	851.6	934.1	961.5
62.5°	657.5	697.8	791.2	875.5	906.6
65°	582.4	631.9	730.8	816.9	848.0
67.5°	514.7	565.9	670.3	758.2	785.7
70°	437.7	500.0	606.2	694.1	725.3
72.5°	371.8	434.1	545.8	631.9	663.0
75°	302.2	370.0	481.7	567.8	595.2
77.5°	232.6	307.7	419.4	485.3	494.5
80°	166.7	245.4	348.0	386.4	399.3
82.5°	117.2	188.6	256.4	282.1	289.4
85°	64.1	124.5	161.2	172.2	172.2
87.5°	27.5	53.1	64.1	65.9	67.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)