

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: P276509

Luminaire Tested: **24CZ2-55HE-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55HE-S-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5388.4 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

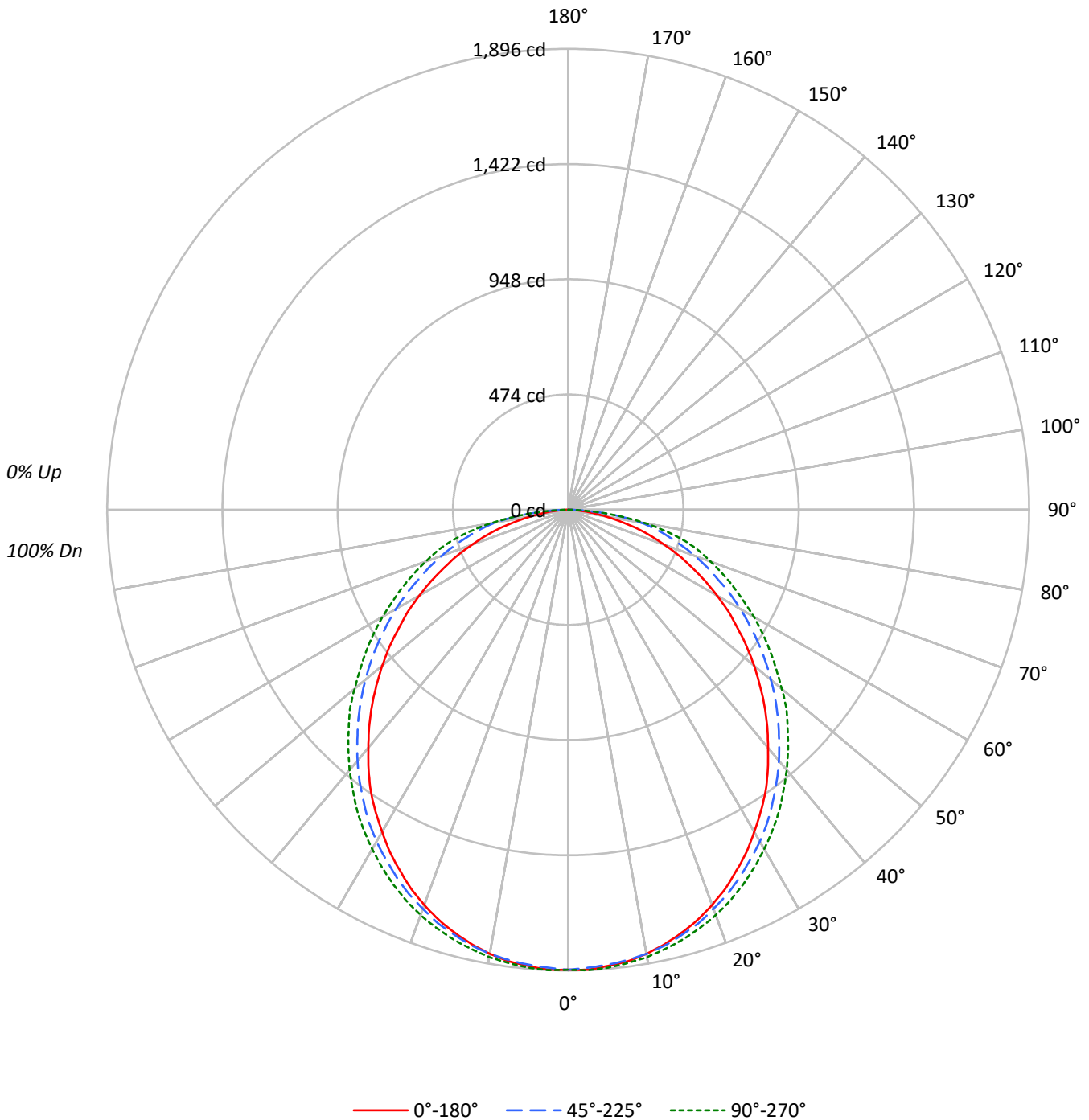
Input Watts (W): 40.269
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2547	2547	2547
5°	2545	2538	2554
10°	2535	2535	2554
15°	2511	2522	2549
20°	2478	2502	2541
25°	2432	2477	2526
30°	2377	2449	2505
35°	2325	2409	2485
40°	2246	2369	2456
45°	2172	2322	2430
50°	2089	2279	2400
55°	1995	2236	2377
60°	1902	2201	2372
65°	1782	2163	2387
70°	1650	2175	2451
75°	1477	2216	2589
80°	1193	2347	2533
85°	898	2061	2008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	3.3
10°-20°	512.1	9.5
20°-30°	769.8	14.3
30°-40°	916.9	17.0
40°-50°	938.4	17.4
50°-60°	844.8	15.7
60°-70°	663.5	12.3
70°-80°	430.6	8.0
80°-90°	133.2	2.5
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°	1461.0	27.1
0°-40°	2378.0	44.1
0°-60°	4161.2	77.2
0°-90°	5388.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5388.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1893	1893	1893	1893	1893	
5°	1884	1888	1879	1890	1891	179
15°	1802	1807	1811	1826	1830	508
25°	1638	1652	1669	1696	1701	755
35°	1416	1433	1467	1503	1513	883
45°	1142	1169	1220	1267	1277	880
55°	851	888	953	1003	1013	763
65°	560	602	680	736	750	557
75°	284	339	426	484	498	301
85°	58	108	134	130	130	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1893.0	1893.0	1893.0	1893.0	1893.0
2.5°	1894.7	1894.7	1886.1	1894.7	1896.4
5°	1884.4	1887.9	1879.3	1889.6	1891.3
7.5°	1874.2	1874.2	1869.0	1879.3	1881.0
10°	1855.3	1857.1	1855.3	1867.3	1869.0
12.5°	1831.4	1834.8	1836.5	1848.5	1850.2
15°	1802.3	1807.4	1810.8	1826.2	1829.7
17.5°	1769.8	1774.9	1783.5	1800.6	1804.0
20°	1730.4	1737.2	1747.5	1769.8	1774.9
22.5°	1687.6	1694.5	1711.6	1732.1	1740.7
25°	1638.0	1651.7	1668.8	1696.2	1701.3
27.5°	1588.3	1600.3	1622.6	1651.7	1658.5
30°	1530.1	1549.0	1576.4	1605.5	1612.3
32.5°	1473.7	1492.5	1525.0	1555.8	1564.4
35°	1415.5	1432.6	1466.8	1502.8	1513.0
37.5°	1348.7	1371.0	1408.6	1444.6	1454.8
40°	1278.5	1305.9	1348.7	1386.4	1398.4
42.5°	1211.8	1240.9	1283.7	1324.8	1338.4
45°	1141.6	1169.0	1220.3	1266.6	1276.8
47.5°	1069.7	1100.5	1155.3	1201.5	1218.6
50°	997.8	1030.4	1088.6	1136.5	1146.8
52.5°	926.0	960.2	1021.8	1073.2	1078.3
55°	850.6	888.3	953.3	1003.0	1013.2
57.5°	782.2	814.7	884.9	936.2	948.2
60°	706.9	742.8	818.1	866.1	881.5
62.5°	635.0	672.6	751.4	799.3	813.0
65°	559.7	602.5	679.5	736.0	749.7
67.5°	494.6	535.7	617.9	672.6	686.3
70°	419.3	465.5	552.8	609.3	623.0
72.5°	354.3	402.2	489.5	544.3	564.8
75°	284.1	338.9	426.2	484.4	498.1
77.5°	215.7	279.0	368.0	412.5	412.5
80°	154.0	220.8	302.9	323.5	326.9
82.5°	101.0	166.0	224.2	222.5	222.5
85°	58.2	107.8	133.5	130.1	130.1
87.5°	22.3	44.5	47.9	47.9	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)