

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: P276092

Luminaire Tested: **24CZ2-55HE-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276092
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-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5406.4 lumens
Efficiency: N/A
Efficacy: 131.8 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

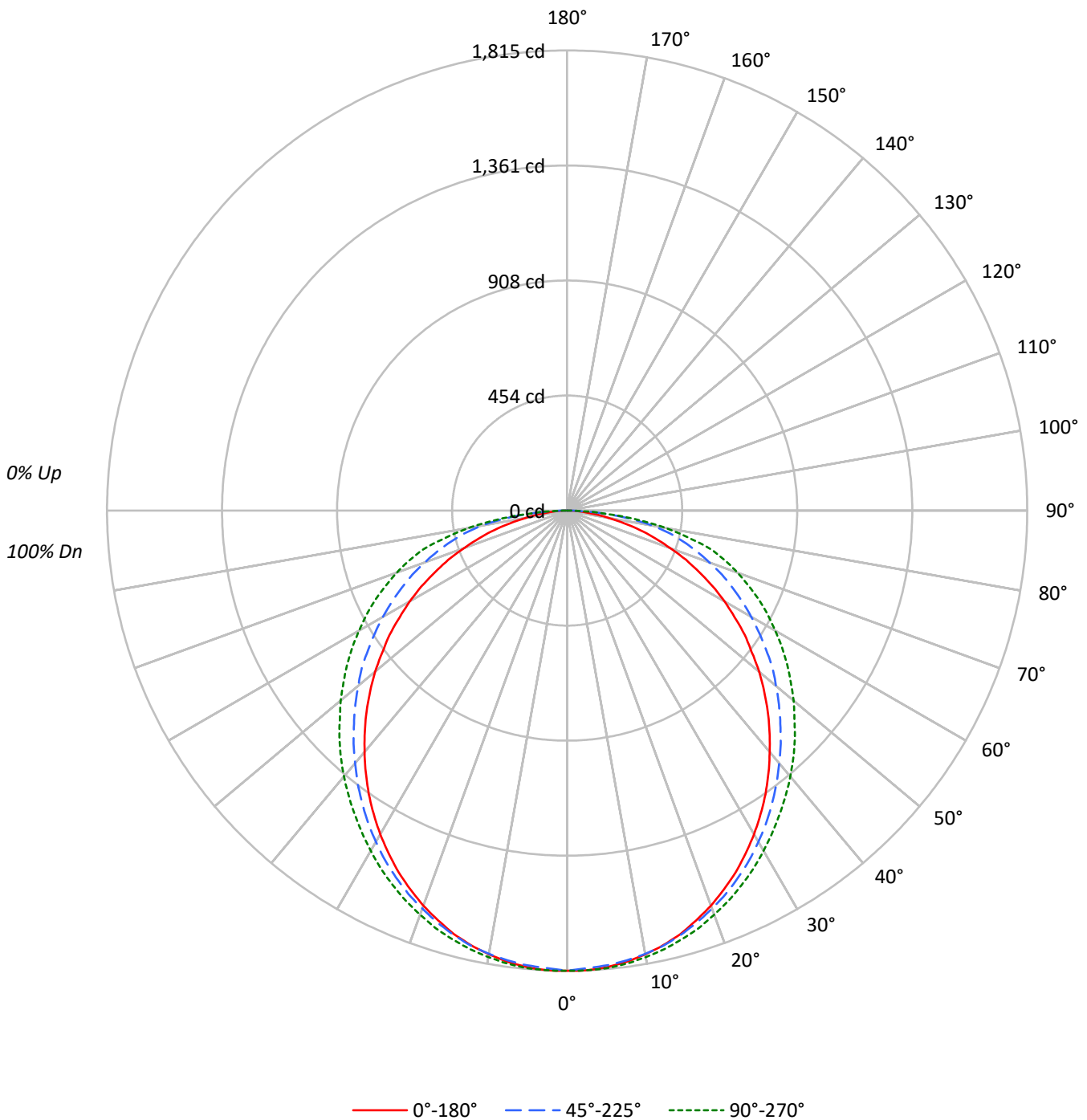
Input Watts (W): 41.013
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
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	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°	2442	2442	2442
5°	2442	2432	2447
10°	2428	2426	2443
15°	2408	2413	2438
20°	2374	2392	2429
25°	2336	2371	2419
30°	2290	2344	2408
35°	2241	2315	2401
40°	2184	2285	2405
45°	2129	2263	2417
50°	2070	2251	2440
55°	2006	2248	2485
60°	1928	2258	2549
65°	1827	2292	2660
70°	1696	2349	2811
75°	1548	2467	3048
80°	1272	2656	3047
85°	976	2452	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	3.2
10°-20°	490.1	9.1
20°-30°	737.5	13.6
30°-40°	883.9	16.3
40°-50°	921.1	17.0
50°-60°	857.0	15.9
60°-70°	705.8	13.1
70°-80°	480.7	8.9
80°-90°	158.7	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°	1399.3	25.9
0°-40°	2283.2	42.2
0°-60°	4061.2	75.1
0°-90°	5406.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5406.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1815	1815	1815	1815	1815	
5°	1808	1808	1801	1810	1812	172
15°	1729	1730	1732	1748	1750	487
25°	1573	1581	1597	1624	1629	724
35°	1364	1380	1409	1447	1462	853
45°	1119	1142	1189	1249	1270	863
55°	855	884	958	1034	1059	762
65°	574	622	720	805	835	570
75°	298	364	474	559	586	314
85°	63	123	159	170	170	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1815.2	1815.2	1815.2	1815.2	1815.2
2.5°	1815.2	1815.2	1806.2	1815.2	1815.2
5°	1808.0	1808.0	1800.7	1809.8	1811.6
7.5°	1795.3	1797.1	1789.9	1800.7	1802.5
10°	1777.3	1779.1	1775.5	1786.3	1788.1
12.5°	1755.6	1757.4	1757.4	1770.1	1771.9
15°	1728.6	1730.4	1732.2	1748.4	1750.2
17.5°	1694.3	1699.7	1703.3	1723.2	1726.8
20°	1658.2	1663.6	1670.8	1692.5	1696.1
22.5°	1616.7	1623.9	1636.5	1660.0	1665.4
25°	1573.4	1580.6	1596.9	1623.9	1629.3
27.5°	1524.7	1535.5	1555.4	1584.2	1591.4
30°	1474.2	1485.0	1508.4	1539.1	1549.9
32.5°	1420.0	1434.5	1461.5	1495.8	1506.6
35°	1364.1	1380.3	1409.2	1447.1	1461.5
37.5°	1304.5	1322.6	1356.9	1398.4	1416.4
40°	1243.2	1264.8	1300.9	1349.7	1369.5
42.5°	1181.8	1201.7	1246.8	1299.1	1320.8
45°	1118.7	1142.2	1189.1	1248.6	1270.3
47.5°	1053.7	1077.2	1133.1	1196.3	1216.1
50°	988.8	1012.2	1075.4	1142.2	1165.6
52.5°	918.4	949.1	1021.3	1088.0	1111.5
55°	855.3	884.1	958.1	1033.9	1059.2
57.5°	783.1	817.4	898.6	978.0	1005.0
60°	716.3	752.4	839.0	920.2	947.3
62.5°	647.8	687.5	779.5	862.5	893.2
65°	573.8	622.5	719.9	804.7	835.4
67.5°	507.0	557.5	660.4	747.0	774.1
70°	431.2	492.6	597.2	683.8	714.5
72.5°	366.3	427.6	537.7	622.5	653.2
75°	297.7	364.5	474.5	559.3	586.4
77.5°	229.2	303.1	413.2	478.2	487.2
80°	164.2	241.8	342.8	380.7	393.3
82.5°	115.5	185.8	252.6	277.9	285.1
85°	63.2	122.7	158.8	169.6	169.6
87.5°	27.1	52.3	63.2	65.0	66.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)