

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: P276087

Luminaire Tested: **24CZ2-55HE-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276087
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-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4818.0 lumens
Efficiency: N/A
Efficacy: 120.2 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

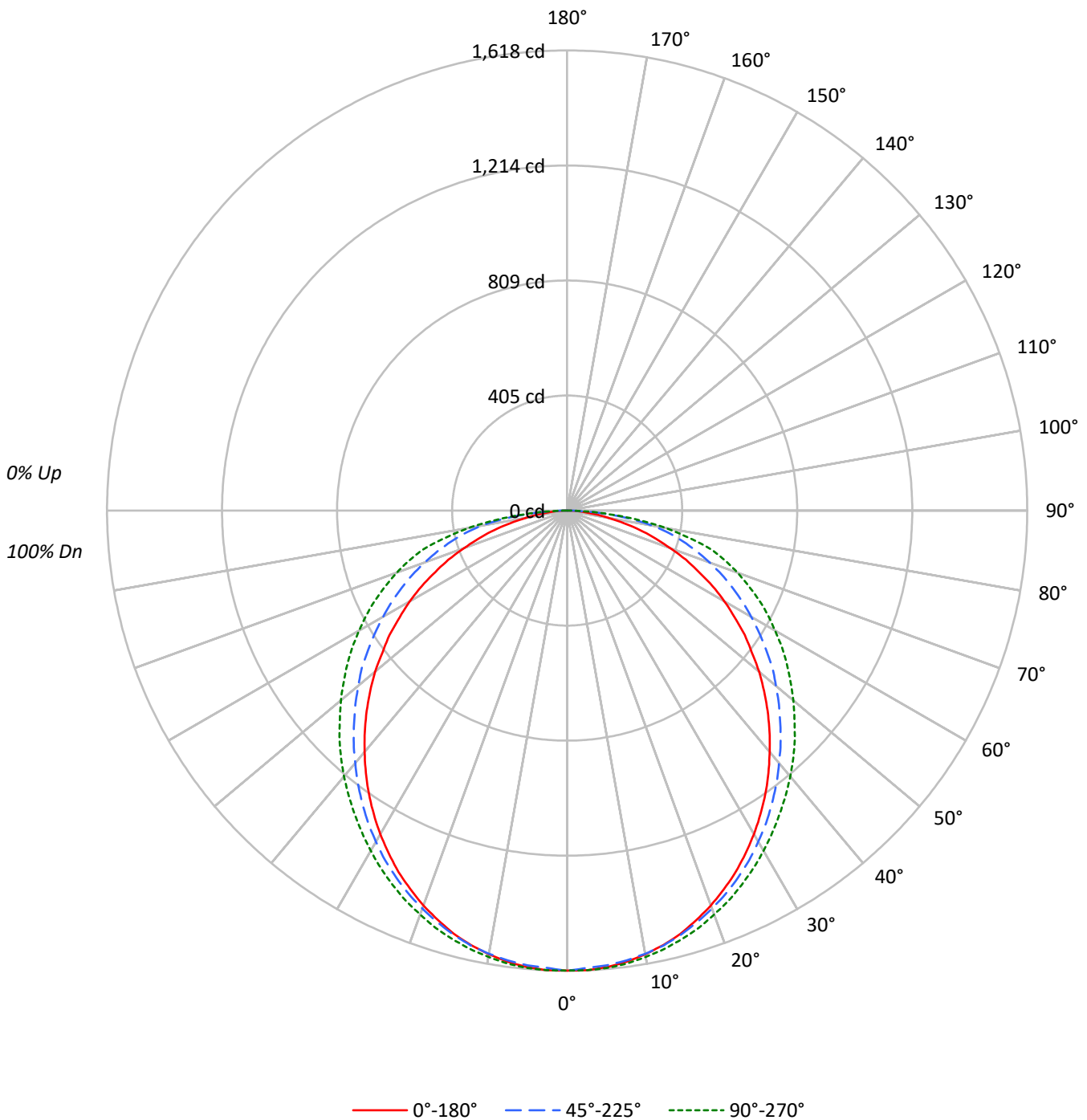
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276087

CATALOG NUMBER: 24CZ2-55HE-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P276087

CATALOG NUMBER: 24CZ2-55HE-UNV-L82765-W2A1-U-2700K

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°	2176	2176	2176
5°	2176	2167	2180
10°	2164	2162	2177
15°	2146	2150	2173
20°	2116	2132	2164
25°	2082	2113	2156
30°	2041	2089	2146
35°	1997	2063	2139
40°	1946	2036	2144
45°	1897	2016	2154
50°	1845	2006	2174
55°	1788	2003	2214
60°	1718	2012	2272
65°	1628	2043	2370
70°	1512	2094	2505
75°	1379	2198	2717
80°	1134	2367	2716
85°	869	2184	2333



TEST NUMBER: P276087

CATALOG NUMBER: 24CZ2-55HE-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	3.2
10°-20°	436.8	9.1
20°-30°	657.3	13.6
30°-40°	787.7	16.3
40°-50°	820.8	17.0
50°-60°	763.7	15.9
60°-70°	629.0	13.1
70°-80°	428.4	8.9
80°-90°	141.4	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°	1247.0	25.9
0°-40°	2034.7	42.2
0°-60°	3619.2	75.1
0°-90°	4818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1618	1618	1618	1618	1618	
5°	1611	1611	1605	1613	1614	153
15°	1540	1542	1544	1558	1560	434
25°	1402	1409	1423	1447	1452	645
35°	1216	1230	1256	1290	1302	760
45°	997	1018	1060	1113	1132	769
55°	762	788	854	921	944	679
65°	511	555	642	717	744	508
75°	265	325	423	498	523	280
85°	56	109	142	151	151	70
90°	0	0	0	0	0	



TEST NUMBER: P276087

CATALOG NUMBER: 24CZ2-55HE-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.6	1617.6	1617.6	1617.6	1617.6
2.5°	1617.6	1617.6	1609.6	1617.6	1617.6
5°	1611.2	1611.2	1604.8	1612.8	1614.4
7.5°	1599.9	1601.5	1595.1	1604.8	1606.4
10°	1583.9	1585.5	1582.2	1591.9	1593.5
12.5°	1564.6	1566.2	1566.2	1577.4	1579.0
15°	1540.4	1542.0	1543.7	1558.1	1559.7
17.5°	1509.9	1514.7	1517.9	1535.6	1538.8
20°	1477.7	1482.5	1489.0	1508.3	1511.5
22.5°	1440.7	1447.2	1458.4	1479.3	1484.2
25°	1402.2	1408.6	1423.1	1447.2	1452.0
27.5°	1358.7	1368.4	1386.1	1411.8	1418.2
30°	1313.7	1323.4	1344.3	1371.6	1381.2
32.5°	1265.5	1278.3	1302.5	1333.0	1342.7
35°	1215.6	1230.1	1255.8	1289.6	1302.5
37.5°	1162.6	1178.6	1209.2	1246.2	1262.3
40°	1107.9	1127.2	1159.3	1202.8	1220.5
42.5°	1053.2	1070.9	1111.1	1157.7	1177.0
45°	996.9	1017.8	1059.7	1112.7	1132.0
47.5°	939.1	960.0	1009.8	1066.1	1083.8
50°	881.2	902.1	958.4	1017.8	1038.7
52.5°	818.5	845.8	910.1	969.6	990.5
55°	762.2	787.9	853.8	921.4	943.9
57.5°	697.9	728.4	800.8	871.5	895.6
60°	638.4	670.5	747.7	820.1	844.2
62.5°	577.3	612.6	694.6	768.6	795.9
65°	511.3	554.8	641.6	717.2	744.5
67.5°	451.8	496.9	588.5	665.7	689.8
70°	384.3	439.0	532.2	609.4	636.8
72.5°	326.4	381.1	479.2	554.8	582.1
75°	265.3	324.8	422.9	498.5	522.6
77.5°	204.2	270.1	368.2	426.1	434.2
80°	146.3	215.5	305.5	339.3	350.5
82.5°	102.9	165.6	225.1	247.6	254.1
85°	56.3	109.3	141.5	151.1	151.1
87.5°	24.1	46.6	56.3	57.9	59.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)