

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: P276227

Luminaire Tested: **24CZ2-55HE-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276227
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4853.0 lumens
Efficiency: N/A
Efficacy: 118.3 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

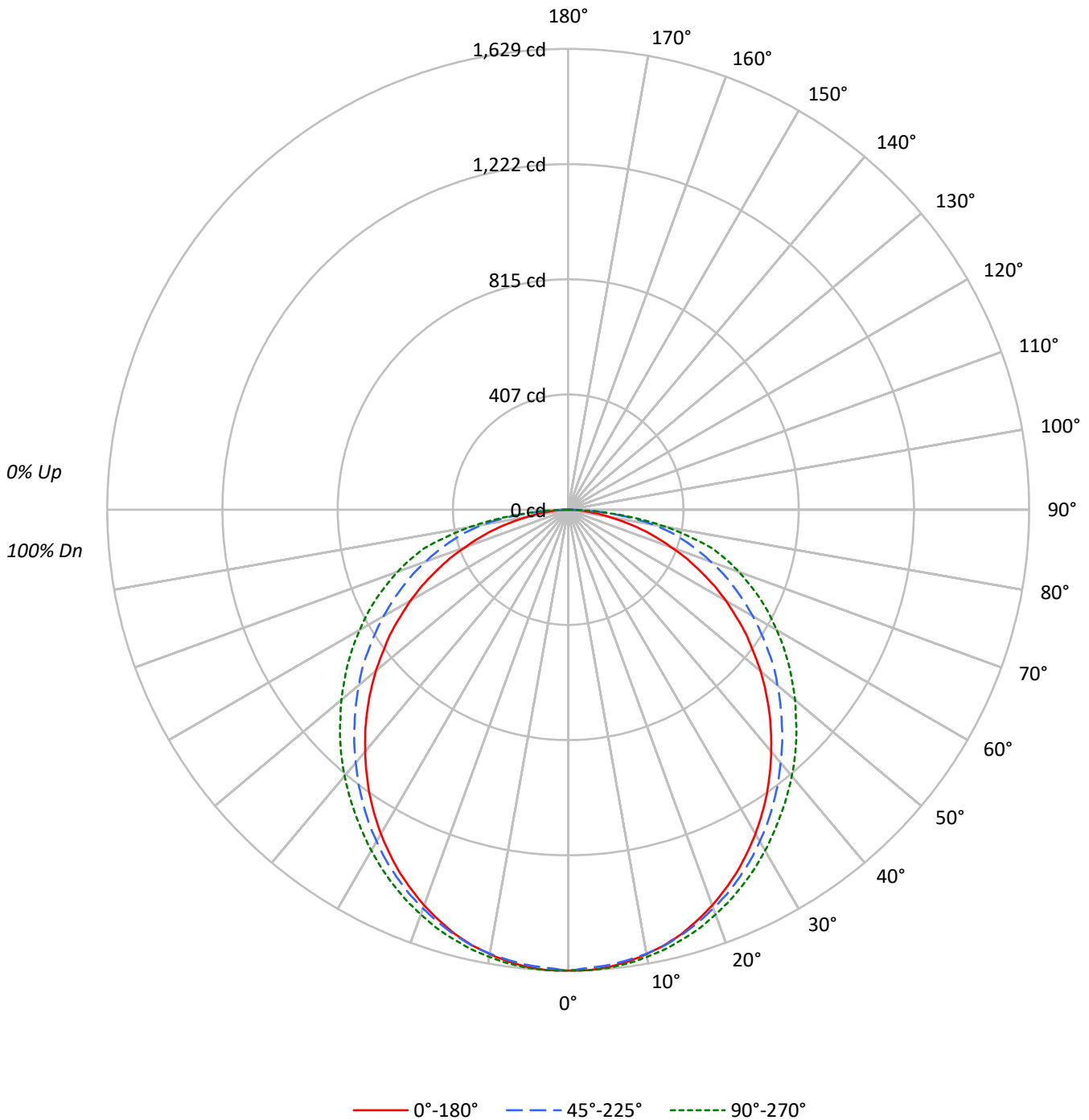
Input Watts (W): 41.013
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	2192	2192	2192
5°	2192	2183	2196
10°	2180	2177	2193
15°	2161	2166	2188
20°	2131	2147	2180
25°	2097	2128	2171
30°	2056	2104	2162
35°	2011	2078	2155
40°	1960	2051	2159
45°	1911	2031	2170
50°	1858	2021	2190
55°	1801	2017	2230
60°	1730	2027	2288
65°	1640	2057	2387
70°	1523	2109	2523
75°	1389	2215	2737
80°	1142	2384	2736
85°	875	2200	2350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	3.2
10°-20°	439.9	9.1
20°-30°	662.0	13.6
30°-40°	793.4	16.3
40°-50°	826.8	17.0
50°-60°	769.2	15.9
60°-70°	633.6	13.1
70°-80°	431.5	8.9
80°-90°	142.4	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°	1256.1	25.9
0°-40°	2049.5	42.2
0°-60°	3645.5	75.1
0°-90°	4853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1623	1623	1616	1624	1626	154
15°	1552	1553	1555	1569	1571	437
25°	1412	1419	1433	1458	1462	650
35°	1224	1239	1265	1299	1312	765
45°	1004	1025	1067	1121	1140	774
55°	768	794	860	928	951	684
65°	515	559	646	722	750	511
75°	267	327	426	502	526	282
85°	57	110	142	152	152	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1629.4	1629.4	1621.3	1629.4	1629.4
5°	1622.9	1622.9	1616.4	1624.5	1626.1
7.5°	1611.6	1613.2	1606.7	1616.4	1618.0
10°	1595.4	1597.0	1593.7	1603.5	1605.1
12.5°	1575.9	1577.5	1577.5	1588.9	1590.5
15°	1551.6	1553.2	1554.9	1569.4	1571.1
17.5°	1520.9	1525.7	1529.0	1546.8	1550.0
20°	1488.5	1493.3	1499.8	1519.2	1522.5
22.5°	1451.2	1457.7	1469.0	1490.1	1494.9
25°	1412.3	1418.8	1433.4	1457.7	1462.5
27.5°	1368.6	1378.3	1396.1	1422.1	1428.5
30°	1323.3	1333.0	1354.0	1381.6	1391.3
32.5°	1274.7	1287.6	1311.9	1342.7	1352.4
35°	1224.5	1239.0	1264.9	1299.0	1311.9
37.5°	1171.0	1187.2	1218.0	1255.2	1271.4
40°	1115.9	1135.4	1167.8	1211.5	1229.3
42.5°	1060.9	1078.7	1119.2	1166.2	1185.6
45°	1004.2	1025.2	1067.4	1120.8	1140.2
47.5°	945.9	966.9	1017.1	1073.8	1091.6
50°	887.6	908.6	965.3	1025.2	1046.3
52.5°	824.4	851.9	916.7	976.7	997.7
55°	767.7	793.6	860.0	928.1	950.7
57.5°	702.9	733.7	806.6	877.9	902.1
60°	643.0	675.4	753.1	826.0	850.3
62.5°	581.5	617.1	699.7	774.2	801.7
65°	515.0	558.8	646.2	722.4	749.9
67.5°	455.1	500.5	592.8	670.5	694.8
70°	387.1	442.2	536.1	613.8	641.4
72.5°	328.8	383.9	482.7	558.8	586.3
75°	267.2	327.2	426.0	502.1	526.4
77.5°	205.7	272.1	370.9	429.2	437.3
80°	147.4	217.0	307.7	341.7	353.1
82.5°	103.7	166.8	226.8	249.4	255.9
85°	56.7	110.1	142.5	152.2	152.2
87.5°	24.3	47.0	56.7	58.3	59.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)