

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: P260829

Luminaire Tested: **24CZ-LD5-50SE-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4722.0 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

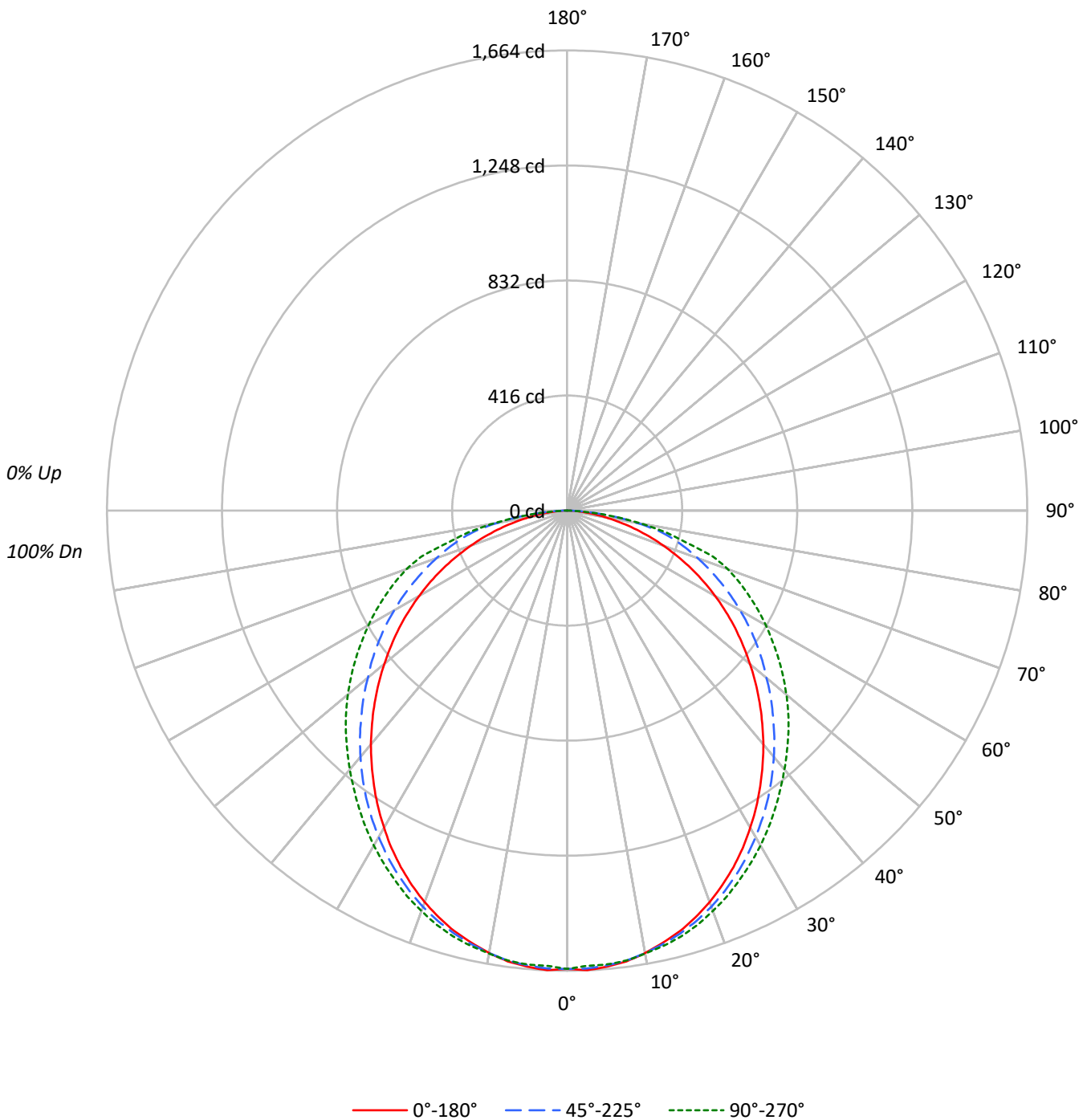
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2230	2230	2230
5°	2236	2229	2225
10°	2220	2220	2222
15°	2193	2205	2221
20°	2157	2183	2206
25°	2112	2153	2189
30°	2057	2117	2173
35°	2000	2082	2156
40°	1939	2042	2147
45°	1874	2003	2153
50°	1807	1970	2166
55°	1741	1957	2188
60°	1662	1945	2232
65°	1575	1946	2306
70°	1456	1978	2430
75°	1303	2067	2311
80°	1090	1979	2117
85°	824	1522	1448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	3.3
10°-20°	445.7	9.4
20°-30°	666.3	14.1
30°-40°	790.4	16.7
40°-50°	813.6	17.2
50°-60°	746.3	15.8
60°-70°	603.4	12.8
70°-80°	391.6	8.3
80°-90°	108.0	2.3
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°	1268.6	26.9
0°-40°	2059.0	43.6
0°-60°	3618.9	76.6
0°-90°	4722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1657	1657	1657	1657	1657	
5°	1656	1644	1651	1649	1648	157
15°	1575	1568	1583	1589	1594	444
25°	1423	1424	1450	1463	1474	655
35°	1217	1227	1268	1295	1313	761
45°	985	1001	1052	1103	1132	760
55°	742	765	834	902	933	663
65°	495	524	611	692	724	489
75°	251	298	398	445	445	266
85°	53	90	99	95	94	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1657.2	1657.2	1657.2	1657.2	1657.2
2.5°	1663.6	1650.7	1657.2	1655.6	1647.5
5°	1655.6	1644.2	1650.7	1649.1	1647.5
7.5°	1644.2	1632.9	1641.0	1639.4	1641.0
10°	1624.8	1615.1	1624.8	1626.5	1626.5
12.5°	1600.6	1592.5	1605.4	1608.7	1611.9
15°	1574.7	1568.3	1582.8	1589.3	1594.1
17.5°	1542.4	1537.5	1555.3	1563.4	1569.9
20°	1506.8	1505.2	1524.6	1532.7	1540.8
22.5°	1466.4	1466.4	1489.0	1498.7	1510.1
25°	1422.7	1424.4	1450.2	1463.2	1474.5
27.5°	1375.9	1377.5	1408.2	1424.4	1437.3
30°	1324.1	1330.6	1362.9	1383.9	1398.5
32.5°	1272.4	1280.5	1316.0	1340.3	1356.5
35°	1217.4	1227.1	1267.5	1295.0	1312.8
37.5°	1160.8	1172.1	1215.8	1246.5	1267.5
40°	1104.2	1117.2	1162.4	1198.0	1222.3
42.5°	1044.4	1059.0	1109.1	1151.1	1177.0
45°	984.6	1000.8	1052.5	1102.6	1131.7
47.5°	924.8	944.2	999.2	1054.1	1084.8
50°	863.3	882.7	941.0	1004.0	1034.7
52.5°	801.9	824.5	889.2	953.9	984.6
55°	742.1	764.7	834.2	902.2	932.9
57.5°	680.7	703.3	779.3	850.4	881.1
60°	617.6	643.5	722.7	795.4	829.4
62.5°	556.2	583.6	667.7	745.3	777.7
65°	494.7	523.8	611.1	692.0	724.3
67.5°	431.7	465.6	556.2	638.6	672.6
70°	370.2	407.4	502.8	585.3	617.6
72.5°	310.4	350.8	449.5	533.5	552.9
75°	250.6	297.5	397.7	444.6	444.6
77.5°	194.0	245.7	339.5	357.3	367.0
80°	140.7	197.2	255.4	276.5	273.2
82.5°	93.8	150.4	182.7	182.7	177.8
85°	53.4	90.5	98.6	95.4	93.8
87.5°	22.6	34.0	30.7	24.3	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)