

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: P261389

Luminaire Tested: **24CZ-LD5-50SE-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4789.0 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

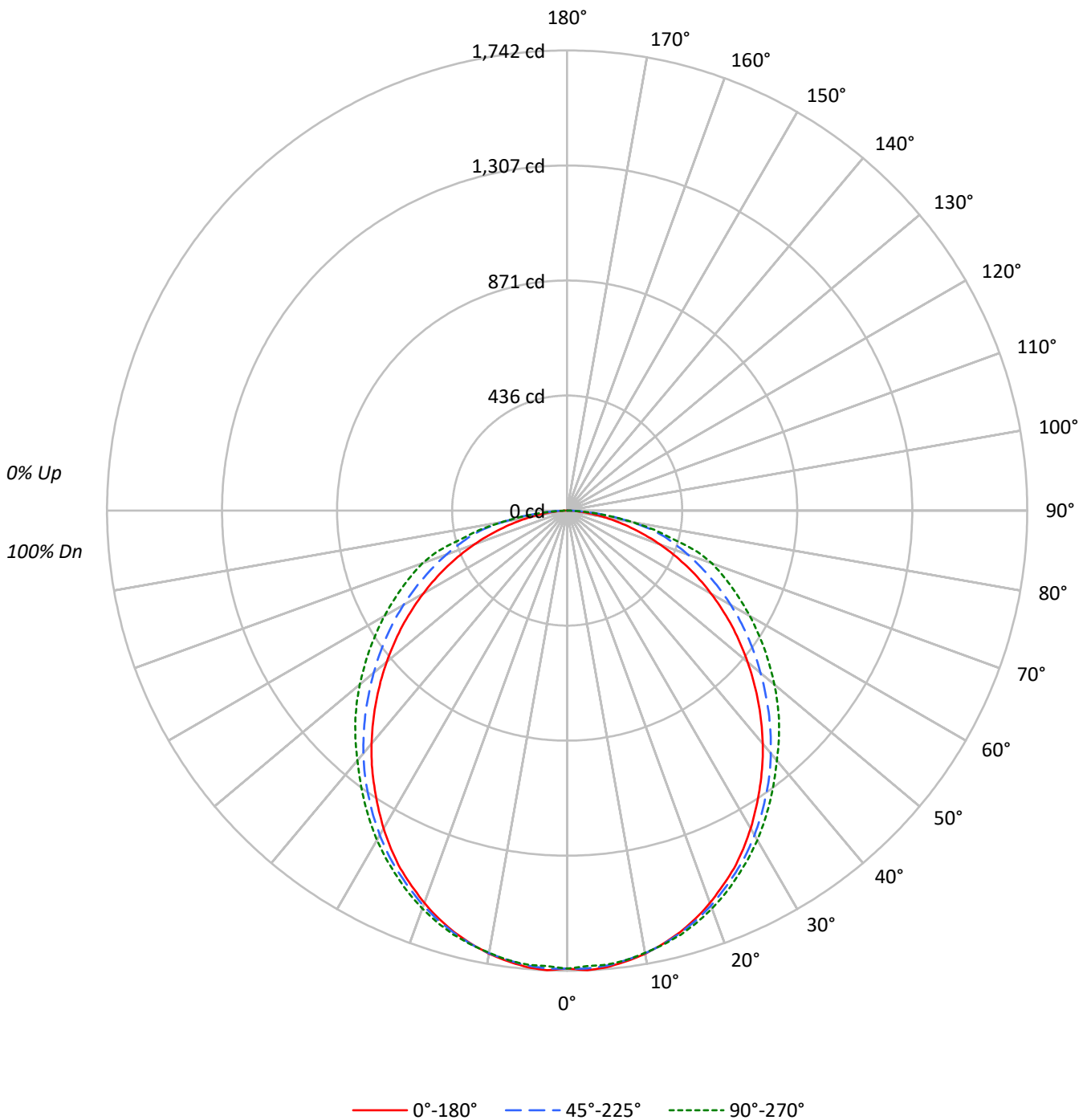
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2333	2333	2333
5°	2344	2335	2331
10°	2327	2325	2323
15°	2302	2306	2315
20°	2263	2279	2295
25°	2219	2243	2266
30°	2159	2203	2238
35°	2091	2157	2201
40°	2024	2108	2169
45°	1947	2053	2159
50°	1868	2001	2145
55°	1787	1959	2138
60°	1694	1925	2148
65°	1593	1903	2192
70°	1467	1912	2294
75°	1301	1980	2137
80°	1086	1877	1926
85°	812	1501	1377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	3.4
10°-20°	466.2	9.7
20°-30°	694.7	14.5
30°-40°	817.8	17.1
40°-50°	831.1	17.4
50°-60°	747.2	15.6
60°-70°	590.3	12.3
70°-80°	374.5	7.8
80°-90°	103.4	2.2
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°	1324.8	27.7
0°-40°	2142.6	44.7
0°-60°	3720.9	77.7
0°-90°	4789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1735	1721	1729	1726	1726	165
15°	1652	1644	1656	1660	1662	465
25°	1495	1493	1511	1520	1527	687
35°	1273	1281	1313	1327	1340	797
45°	1023	1037	1079	1111	1135	789
55°	762	781	835	889	912	680
65°	500	526	598	663	688	496
75°	250	293	381	414	411	266
85°	53	91	97	89	89	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1733.7	1733.7	1733.7	1733.7	1733.7
2.5°	1741.7	1728.9	1735.3	1732.1	1725.7
5°	1735.3	1721.0	1728.9	1725.7	1725.7
7.5°	1721.0	1709.8	1716.2	1714.6	1716.2
10°	1703.4	1692.3	1701.8	1701.8	1700.2
12.5°	1679.5	1670.0	1681.1	1681.1	1682.7
15°	1652.4	1644.5	1655.6	1660.4	1662.0
17.5°	1619.0	1611.0	1625.3	1630.1	1634.9
20°	1580.7	1577.5	1591.9	1596.7	1603.0
22.5°	1537.7	1537.7	1552.0	1558.4	1568.0
25°	1494.7	1493.1	1510.6	1520.2	1526.6
27.5°	1443.7	1445.3	1467.6	1477.2	1485.1
30°	1389.5	1392.7	1418.2	1429.4	1440.5
32.5°	1332.1	1338.5	1367.2	1380.0	1391.1
35°	1273.2	1281.2	1313.0	1327.4	1340.1
37.5°	1214.2	1225.4	1258.8	1273.2	1287.5
40°	1152.1	1161.6	1199.9	1217.4	1234.9
42.5°	1088.3	1101.1	1139.3	1164.8	1185.5
45°	1023.0	1037.4	1078.8	1110.7	1134.6
47.5°	957.7	976.8	1016.6	1059.7	1080.4
50°	892.3	911.5	956.1	1003.9	1024.6
52.5°	825.4	844.5	895.5	944.9	967.2
55°	761.7	780.8	835.0	889.2	911.5
57.5°	694.8	715.5	776.0	831.8	854.1
60°	629.4	650.1	715.5	774.4	798.3
62.5°	565.7	588.0	656.5	718.7	742.6
65°	500.4	525.8	597.6	662.9	688.4
67.5°	436.6	465.3	540.2	608.7	635.8
70°	372.9	406.3	486.0	556.1	583.2
72.5°	310.7	347.4	431.8	501.9	516.3
75°	250.2	293.2	380.8	414.3	411.1
77.5°	192.8	240.6	323.5	329.9	339.4
80°	140.2	192.8	242.2	255.0	248.6
82.5°	92.4	145.0	173.7	167.3	165.7
85°	52.6	90.8	97.2	89.2	89.2
87.5°	22.3	36.7	31.9	23.9	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)