

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: P260876

Luminaire Tested: **24CZ-LD5-50-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260876
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-LD5-50-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4439.0 lumens
Efficiency: N/A
Efficacy: 123.0 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

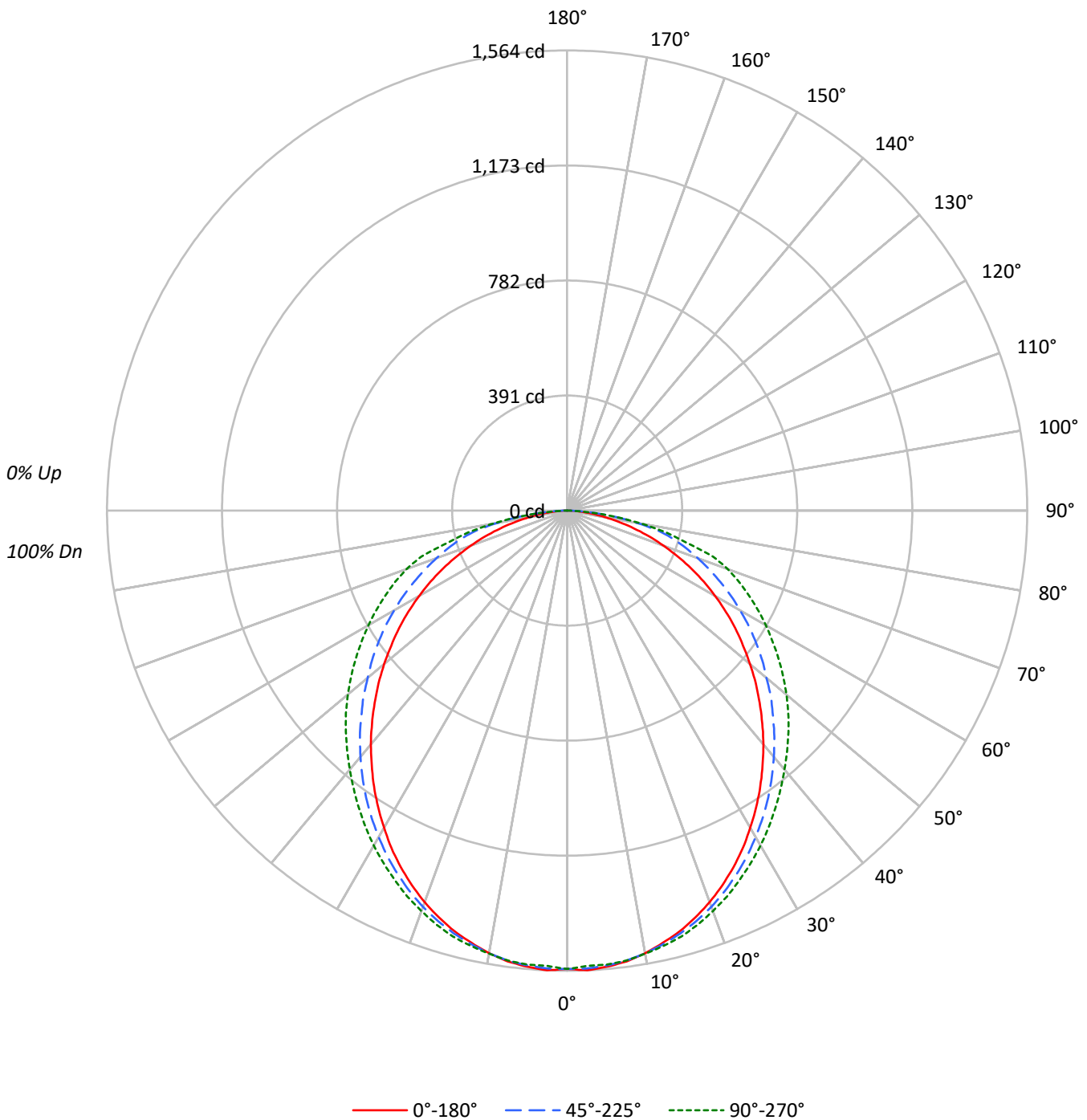
Input Watts (W): 36.084
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2096	2096	2096
5°	2102	2096	2092
10°	2087	2087	2089
15°	2062	2073	2087
20°	2028	2052	2074
25°	1986	2024	2058
30°	1934	1991	2043
35°	1880	1957	2027
40°	1823	1919	2018
45°	1761	1883	2024
50°	1699	1852	2036
55°	1636	1840	2057
60°	1562	1828	2098
65°	1481	1829	2168
70°	1369	1860	2284
75°	1225	1944	2173
80°	1024	1860	1991
85°	775	1431	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	3.3
10°-20°	419.0	9.4
20°-30°	626.4	14.1
30°-40°	743.1	16.7
40°-50°	764.8	17.2
50°-60°	701.6	15.8
60°-70°	567.3	12.8
70°-80°	368.2	8.3
80°-90°	101.5	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°	1192.6	26.9
0°-40°	1935.6	43.6
0°-60°	3402.0	76.6
0°-90°	4439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1556	1546	1552	1550	1549	148
15°	1480	1474	1488	1494	1499	417
25°	1338	1339	1363	1376	1386	616
35°	1144	1154	1192	1217	1234	716
45°	926	941	989	1036	1064	714
55°	698	719	784	848	877	623
65°	465	492	574	650	681	460
75°	236	280	374	418	418	250
85°	50	85	93	90	88	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1557.9	1557.9	1557.9	1557.9	1557.9
2.5°	1563.9	1551.8	1557.9	1556.3	1548.7
5°	1556.3	1545.7	1551.8	1550.3	1548.7
7.5°	1545.7	1535.1	1542.7	1541.1	1542.7
10°	1527.5	1518.3	1527.5	1529.0	1529.0
12.5°	1504.7	1497.1	1509.2	1512.3	1515.3
15°	1480.3	1474.3	1487.9	1494.0	1498.6
17.5°	1449.9	1445.4	1462.1	1469.7	1475.8
20°	1416.5	1415.0	1433.2	1440.8	1448.4
22.5°	1378.5	1378.5	1399.8	1408.9	1419.6
25°	1337.5	1339.0	1363.3	1375.5	1386.1
27.5°	1293.4	1294.9	1323.8	1339.0	1351.2
30°	1244.8	1250.8	1281.2	1301.0	1314.7
32.5°	1196.1	1203.7	1237.2	1260.0	1275.2
35°	1144.5	1153.6	1191.6	1217.4	1234.1
37.5°	1091.3	1101.9	1142.9	1171.8	1191.6
40°	1038.1	1050.2	1092.8	1126.2	1149.0
42.5°	981.8	995.5	1042.6	1082.1	1106.5
45°	925.6	940.8	989.4	1036.5	1063.9
47.5°	869.4	887.6	939.3	990.9	1019.8
50°	811.6	829.8	884.6	943.8	972.7
52.5°	753.9	775.1	835.9	896.7	925.6
55°	697.6	718.9	784.2	848.1	877.0
57.5°	639.9	661.1	732.6	799.4	828.3
60°	580.6	604.9	679.4	747.8	779.7
62.5°	522.8	548.7	627.7	700.7	731.1
65°	465.1	492.4	574.5	650.5	680.9
67.5°	405.8	437.7	522.8	600.3	632.3
70°	348.0	383.0	472.7	550.2	580.6
72.5°	291.8	329.8	422.5	501.6	519.8
75°	235.6	279.7	373.9	418.0	418.0
77.5°	182.4	231.0	319.2	335.9	345.0
80°	132.2	185.4	240.1	259.9	256.9
82.5°	88.2	141.3	171.7	171.7	167.2
85°	50.2	85.1	92.7	89.7	88.2
87.5°	21.3	31.9	28.9	22.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)