

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: P276309

Luminaire Tested: **24CZ2-50-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276309
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: 24CZ2-50-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4441.4 lumens
Efficiency: N/A
Efficacy: 108.8 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

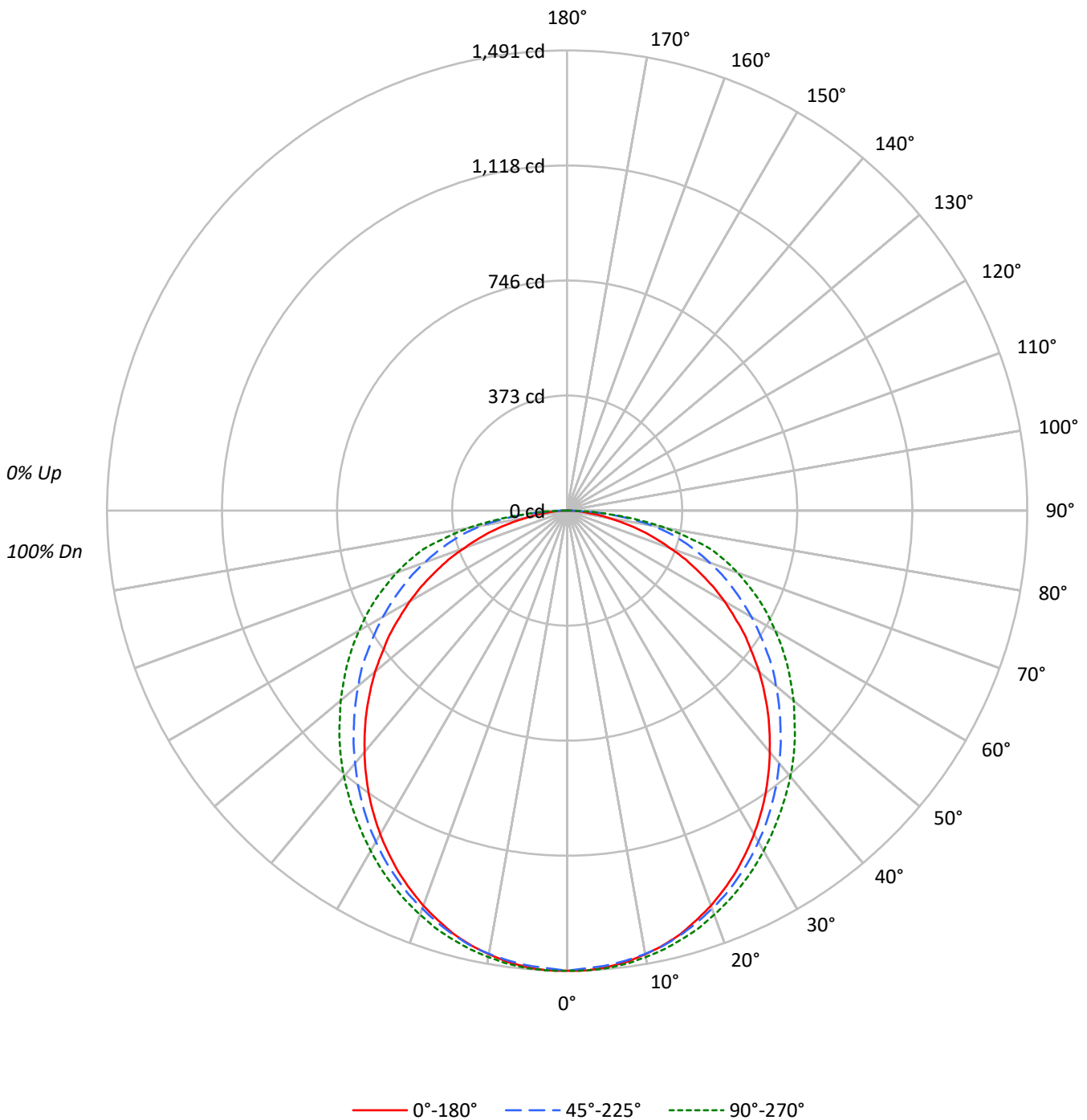
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2006	2006	2006
5°	2006	1998	2010
10°	1995	1993	2007
15°	1978	1982	2003
20°	1950	1965	1995
25°	1919	1947	1987
30°	1882	1925	1978
35°	1841	1902	1972
40°	1794	1877	1976
45°	1749	1859	1986
50°	1700	1849	2004
55°	1648	1846	2041
60°	1584	1855	2094
65°	1501	1883	2185
70°	1394	1930	2309
75°	1272	2026	2505
80°	1045	2182	2503
85°	801	2013	2150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	3.2
10°-20°	402.6	9.1
20°-30°	605.9	13.6
30°-40°	726.1	16.3
40°-50°	756.7	17.0
50°-60°	704.0	15.9
60°-70°	579.8	13.1
70°-80°	394.9	8.9
80°-90°	130.4	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°	1149.6	25.9
0°-40°	1875.7	42.2
0°-60°	3336.4	75.1
0°-90°	4441.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4441.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1485	1485	1479	1487	1488	141
15°	1420	1422	1423	1436	1438	400
25°	1293	1298	1312	1334	1338	595
35°	1121	1134	1158	1189	1201	700
45°	919	938	977	1026	1044	709
55°	703	726	787	849	870	626
65°	471	511	591	661	686	468
75°	245	299	390	460	482	258
85°	52	101	130	139	139	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1491.2	1491.2	1491.2	1491.2	1491.2
2.5°	1491.2	1491.2	1483.8	1491.2	1491.2
5°	1485.3	1485.3	1479.3	1486.8	1488.2
7.5°	1474.9	1476.4	1470.5	1479.3	1480.8
10°	1460.1	1461.6	1458.6	1467.5	1469.0
12.5°	1442.3	1443.8	1443.8	1454.2	1455.6
15°	1420.1	1421.5	1423.0	1436.4	1437.8
17.5°	1391.9	1396.3	1399.3	1415.6	1418.6
20°	1362.2	1366.7	1372.6	1390.4	1393.4
22.5°	1328.2	1334.1	1344.5	1363.7	1368.2
25°	1292.6	1298.5	1311.8	1334.1	1338.5
27.5°	1252.6	1261.4	1277.8	1301.5	1307.4
30°	1211.1	1219.9	1239.2	1264.4	1273.3
32.5°	1166.6	1178.4	1200.7	1228.8	1237.7
35°	1120.6	1134.0	1157.7	1188.8	1200.7
37.5°	1071.7	1086.5	1114.7	1148.8	1163.6
40°	1021.3	1039.1	1068.7	1108.8	1125.1
42.5°	970.9	987.2	1024.3	1067.3	1085.1
45°	919.0	938.3	976.8	1025.8	1043.5
47.5°	865.7	884.9	930.9	982.8	999.1
50°	812.3	831.6	883.5	938.3	957.6
52.5°	754.5	779.7	839.0	893.8	913.1
55°	702.6	726.3	787.1	849.4	870.1
57.5°	643.3	671.5	738.2	803.4	825.6
60°	588.5	618.1	689.3	756.0	778.2
62.5°	532.2	564.8	640.4	708.5	733.7
65°	471.4	511.4	591.4	661.1	686.3
67.5°	416.5	458.0	542.5	613.7	635.9
70°	354.3	404.7	490.6	561.8	587.0
72.5°	300.9	351.3	441.7	511.4	536.6
75°	244.6	299.4	389.8	459.5	481.8
77.5°	188.3	249.0	339.4	392.8	400.2
80°	134.9	198.6	281.6	312.8	323.1
82.5°	94.9	152.7	207.5	228.3	234.2
85°	51.9	100.8	130.4	139.3	139.3
87.5°	22.2	43.0	51.9	53.4	54.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)