

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: P263711

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4723.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

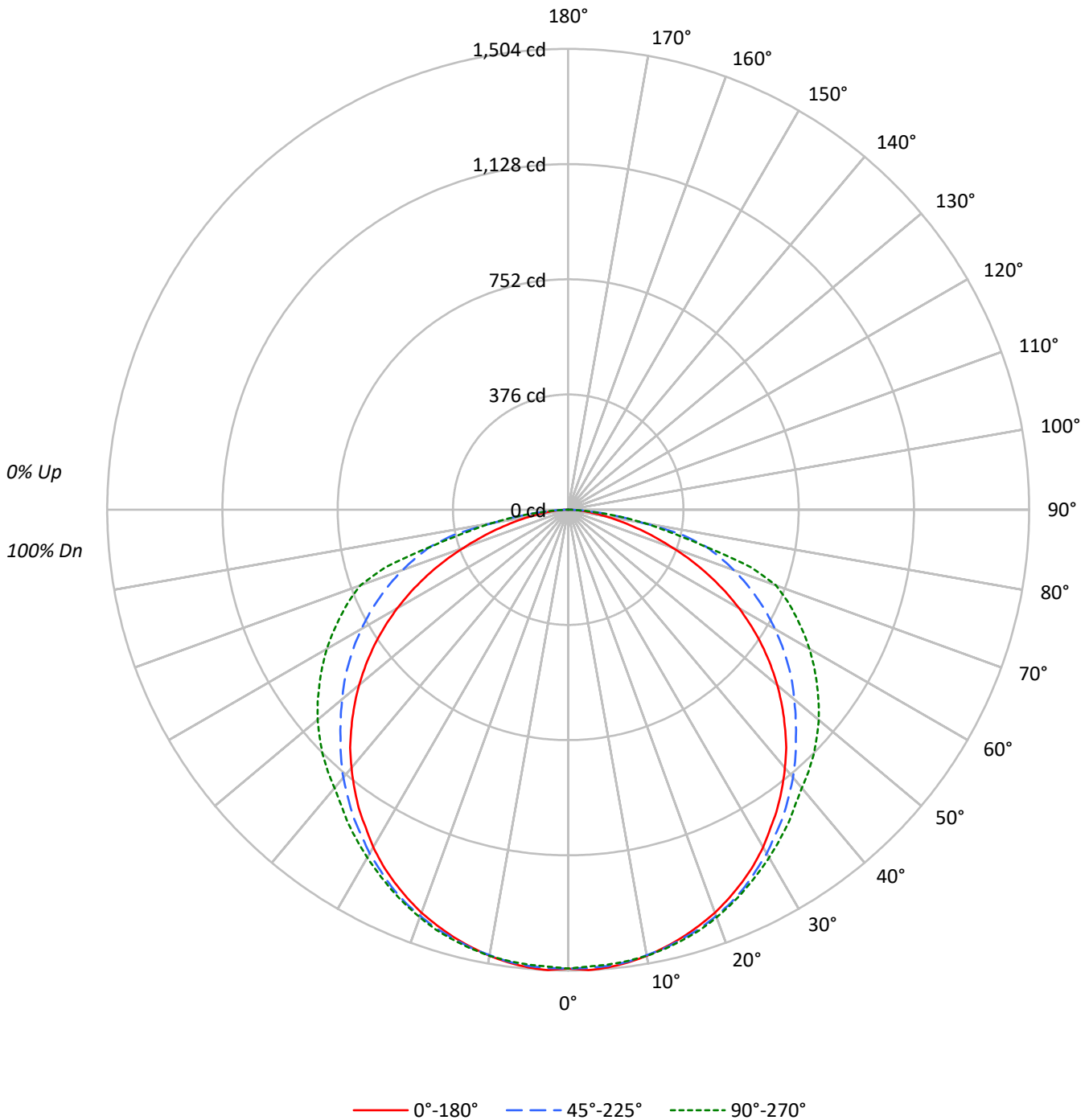
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	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	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2014	2014	2014
5°	2025	2019	2013
10°	2020	2017	2020
15°	2011	2018	2024
20°	2004	2021	2027
25°	1992	2019	2029
30°	1976	2012	2037
35°	1955	2009	2054
40°	1932	2005	2083
45°	1902	2000	2154
50°	1864	2015	2234
55°	1811	2051	2323
60°	1733	2096	2446
65°	1613	2161	2606
70°	1427	2259	2835
75°	1197	2417	2381
80°	955	1909	1981
85°	753	1292	1184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	3.0
10°-20°	408.7	8.7
20°-30°	624.2	13.2
30°-40°	763.2	16.2
40°-50°	816.9	17.3
50°-60°	783.6	16.6
60°-70°	661.6	14.0
70°-80°	422.8	9.0
80°-90°	100.0	2.1
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°	1174.9	24.9
0°-40°	1938.1	41.0
0°-60°	3538.6	74.9
0°-90°	4723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1500	1490	1495	1493	1490	142
15°	1444	1439	1448	1453	1453	408
25°	1342	1339	1360	1365	1367	618
35°	1190	1200	1223	1239	1251	744
45°	1000	1016	1051	1100	1132	771
55°	772	797	874	953	990	689
65°	507	556	679	774	818	500
75°	230	328	465	474	458	248
85°	49	81	84	81	77	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1497.2	1497.2	1497.2	1497.2	1497.2
2.5°	1504.2	1494.9	1497.2	1497.2	1492.6
5°	1499.6	1490.3	1494.9	1492.6	1490.3
7.5°	1490.3	1483.3	1487.9	1487.9	1485.6
10°	1478.6	1471.7	1476.3	1478.6	1478.6
12.5°	1462.4	1457.7	1464.7	1464.7	1467.0
15°	1443.8	1439.1	1448.4	1453.1	1453.1
17.5°	1422.8	1420.5	1432.1	1434.5	1436.8
20°	1399.6	1397.3	1411.2	1411.2	1415.9
22.5°	1371.7	1369.4	1388.0	1388.0	1392.6
25°	1341.5	1339.1	1360.1	1364.7	1367.0
27.5°	1308.9	1306.6	1327.5	1334.5	1339.1
30°	1271.7	1271.7	1295.0	1304.3	1311.2
32.5°	1229.9	1236.8	1257.8	1271.7	1281.0
35°	1190.3	1199.6	1222.9	1239.2	1250.8
37.5°	1146.2	1155.5	1181.0	1202.0	1215.9
40°	1099.7	1111.3	1141.5	1164.8	1185.7
42.5°	1053.2	1064.8	1097.3	1132.2	1160.1
45°	999.7	1016.0	1050.9	1099.7	1132.2
47.5°	946.2	962.5	1006.7	1067.1	1099.7
50°	890.4	909.0	962.5	1032.3	1067.1
52.5°	832.3	853.2	920.7	995.1	1029.9
55°	771.9	797.4	874.2	953.2	990.4
57.5°	709.1	737.0	827.7	911.4	950.9
60°	644.0	678.9	778.8	867.2	909.0
62.5°	576.6	618.4	730.0	820.7	864.9
65°	506.8	555.6	678.9	774.2	818.4
67.5°	434.8	499.9	627.7	727.7	771.9
70°	362.7	439.4	574.2	676.5	720.7
72.5°	295.3	383.6	520.8	616.1	625.4
75°	230.2	327.8	465.0	474.3	458.0
77.5°	172.0	272.0	383.6	341.8	339.4
80°	123.2	218.5	246.4	253.4	255.7
82.5°	81.4	165.1	160.4	165.1	162.7
85°	48.8	81.4	83.7	81.4	76.7
87.5°	23.2	30.2	23.2	20.9	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)