

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: P263716

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263716
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-LD5-70-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4786.0 lumens
Efficiency: N/A
Efficacy: 88.7 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

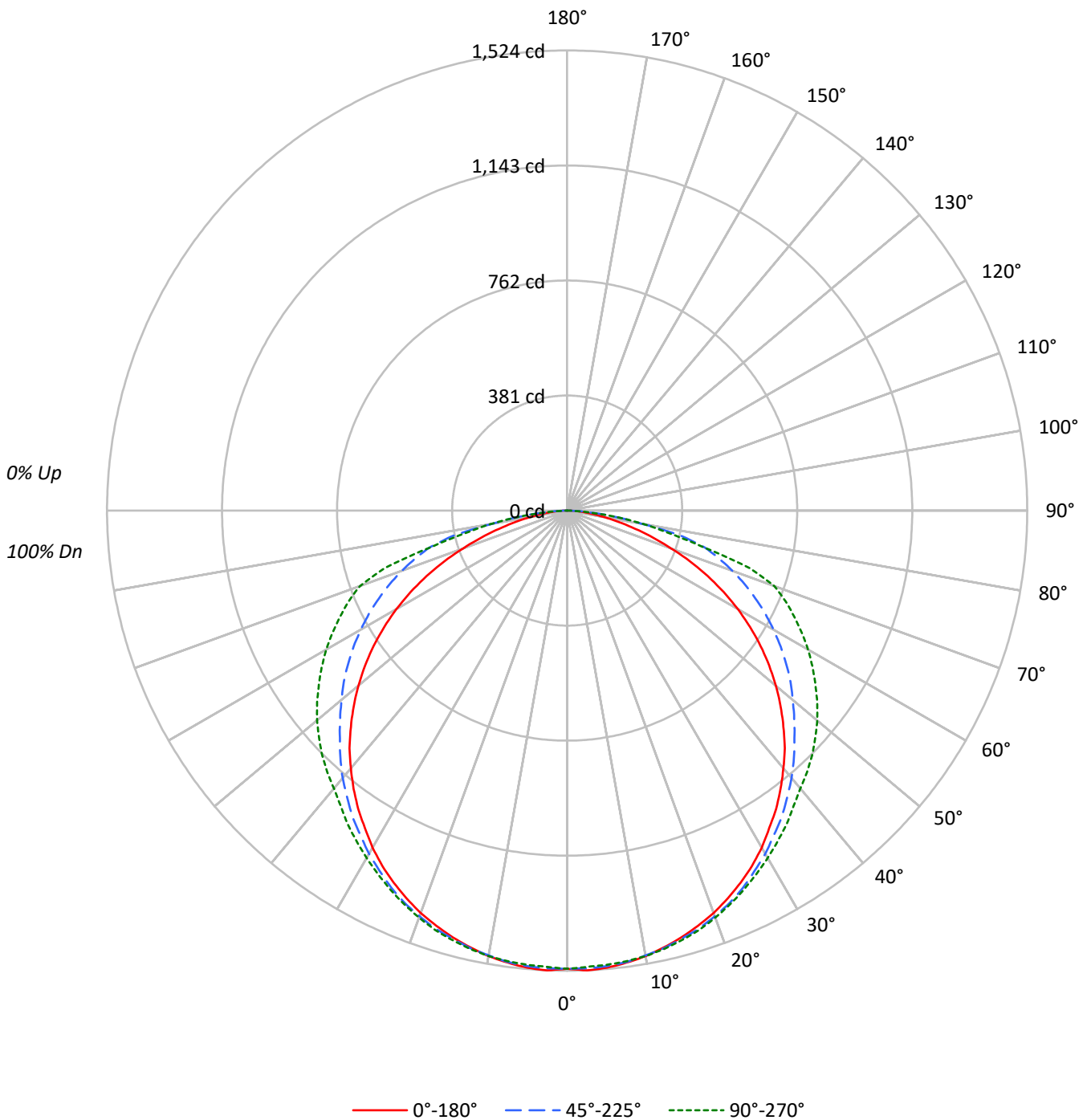
Input Watts (W): 53.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2041	2041	2041
5°	2052	2046	2040
10°	2047	2044	2047
15°	2038	2044	2051
20°	2031	2048	2054
25°	2018	2046	2057
30°	2002	2039	2064
35°	1981	2035	2082
40°	1957	2032	2110
45°	1928	2026	2183
50°	1889	2042	2264
55°	1835	2078	2354
60°	1756	2124	2479
65°	1635	2190	2640
70°	1446	2289	2873
75°	1212	2450	2413
80°	968	1935	2008
85°	764	1309	1200



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	3.0
10°-20°	414.1	8.7
20°-30°	632.6	13.2
30°-40°	773.4	16.2
40°-50°	827.8	17.3
50°-60°	794.0	16.6
60°-70°	670.4	14.0
70°-80°	428.5	9.0
80°-90°	101.3	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°	1190.6	24.9
0°-40°	1964.0	41.0
0°-60°	3585.8	74.9
0°-90°	4786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1520	1510	1515	1512	1510	144
15°	1463	1458	1468	1472	1472	413
25°	1359	1357	1378	1383	1385	627
35°	1206	1216	1239	1256	1268	754
45°	1013	1030	1065	1114	1147	781
55°	782	808	886	966	1004	698
65°	514	563	688	784	829	507
75°	233	332	471	481	464	251
85°	50	82	85	82	78	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1517.2	1517.2	1517.2	1517.2	1517.2
2.5°	1524.3	1514.8	1517.2	1517.2	1512.5
5°	1519.6	1510.1	1514.8	1512.5	1510.1
7.5°	1510.1	1503.1	1507.8	1507.8	1505.4
10°	1498.4	1491.3	1496.0	1498.4	1498.4
12.5°	1481.9	1477.2	1484.2	1484.2	1486.6
15°	1463.0	1458.3	1467.7	1472.4	1472.4
17.5°	1441.8	1439.5	1451.2	1453.6	1455.9
20°	1418.3	1415.9	1430.0	1430.0	1434.7
22.5°	1390.0	1387.6	1406.5	1406.5	1411.2
25°	1359.4	1357.0	1378.2	1382.9	1385.3
27.5°	1326.4	1324.0	1345.2	1352.3	1357.0
30°	1288.7	1288.7	1312.2	1321.7	1328.7
32.5°	1246.3	1253.3	1274.5	1288.7	1298.1
35°	1206.2	1215.6	1239.2	1255.7	1267.5
37.5°	1161.5	1170.9	1196.8	1218.0	1232.1
40°	1114.3	1126.1	1156.7	1180.3	1201.5
42.5°	1067.2	1079.0	1112.0	1147.3	1175.6
45°	1013.0	1029.5	1064.9	1114.3	1147.3
47.5°	958.9	975.3	1020.1	1081.4	1114.3
50°	902.3	921.2	975.3	1046.0	1081.4
52.5°	843.4	864.6	932.9	1008.3	1043.7
55°	782.2	808.1	885.8	965.9	1003.6
57.5°	718.6	746.8	838.7	923.5	963.6
60°	652.6	687.9	789.2	878.8	921.2
62.5°	584.3	626.7	739.8	831.6	876.4
65°	513.6	563.1	687.9	784.5	829.3
67.5°	440.6	506.5	636.1	737.4	782.2
70°	367.5	445.3	581.9	685.6	730.3
72.5°	299.2	388.7	527.7	624.3	633.7
75°	233.2	332.2	471.2	480.6	464.1
77.5°	174.3	275.6	388.7	346.3	344.0
80°	124.9	221.5	249.7	256.8	259.1
82.5°	82.5	167.3	162.6	167.3	164.9
85°	49.5	82.5	84.8	82.5	77.7
87.5°	23.6	30.6	23.6	21.2	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)