

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: P263857

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263857
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-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4651.0 lumens
Efficiency: N/A
Efficacy: 82.8 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

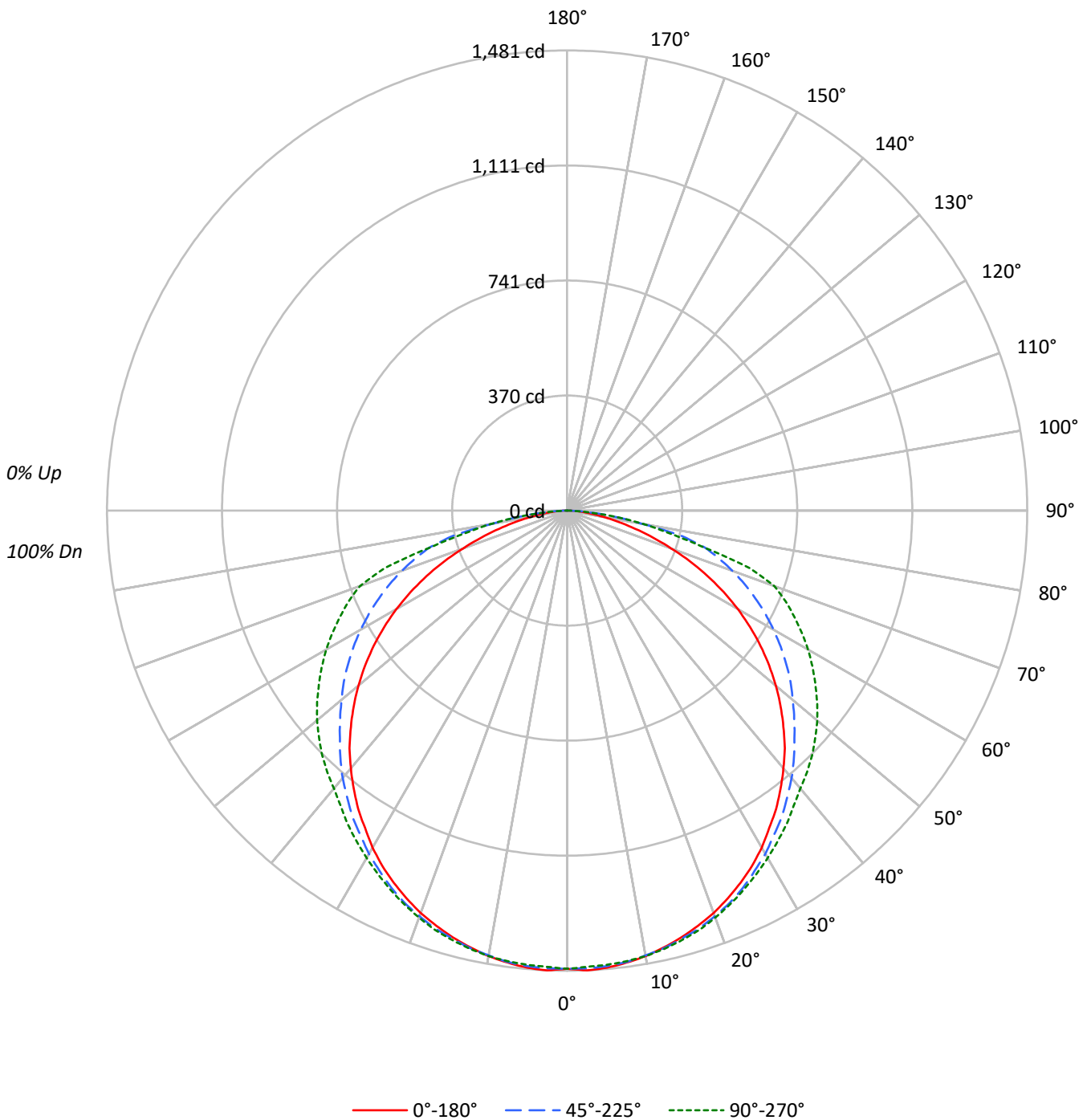
Input Watts (W): 56.172
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	1984	1984	1984
5°	1994	1988	1982
10°	1989	1986	1989
15°	1980	1987	1993
20°	1973	1990	1996
25°	1961	1988	1999
30°	1946	1981	2006
35°	1925	1978	2023
40°	1902	1974	2051
45°	1873	1969	2122
50°	1836	1984	2200
55°	1783	2019	2288
60°	1707	2064	2409
65°	1589	2128	2566
70°	1405	2225	2792
75°	1179	2380	2345
80°	940	1881	1951
85°	743	1272	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	3.0
10°-20°	402.5	8.7
20°-30°	614.7	13.2
30°-40°	751.5	16.2
40°-50°	804.4	17.3
50°-60°	771.6	16.6
60°-70°	651.5	14.0
70°-80°	416.4	9.0
80°-90°	98.5	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°	1157.0	24.9
0°-40°	1908.6	41.0
0°-60°	3484.6	74.9
0°-90°	4651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4651.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1477	1468	1472	1470	1468	140
15°	1422	1417	1426	1431	1431	401
25°	1321	1319	1339	1344	1346	609
35°	1172	1181	1204	1220	1232	733
45°	984	1000	1035	1083	1115	759
55°	760	785	861	939	975	678
65°	499	547	668	762	806	492
75°	227	323	458	467	451	244
85°	48	80	82	80	76	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.4	1474.4	1474.4	1474.4	1474.4
2.5°	1481.3	1472.1	1474.4	1474.4	1469.8
5°	1476.7	1467.5	1472.1	1469.8	1467.5
7.5°	1467.5	1460.7	1465.2	1465.2	1463.0
10°	1456.1	1449.2	1453.8	1456.1	1456.1
12.5°	1440.1	1435.5	1442.4	1442.4	1444.6
15°	1421.7	1417.2	1426.3	1430.9	1430.9
17.5°	1401.1	1398.9	1410.3	1412.6	1414.9
20°	1378.2	1376.0	1389.7	1389.7	1394.3
22.5°	1350.8	1348.5	1366.8	1366.8	1371.4
25°	1321.0	1318.7	1339.3	1343.9	1346.2
27.5°	1289.0	1286.7	1307.3	1314.1	1318.7
30°	1252.3	1252.3	1275.2	1284.4	1291.2
32.5°	1211.1	1218.0	1238.6	1252.3	1261.5
35°	1172.2	1181.4	1204.3	1220.3	1231.7
37.5°	1128.7	1137.9	1163.0	1183.6	1197.4
40°	1082.9	1094.4	1124.1	1147.0	1167.6
42.5°	1037.1	1048.6	1080.6	1115.0	1142.4
45°	984.5	1000.5	1034.8	1082.9	1115.0
47.5°	931.8	947.8	991.3	1050.9	1082.9
50°	876.9	895.2	947.8	1016.5	1050.9
52.5°	819.6	840.2	906.6	979.9	1014.2
55°	760.1	785.3	860.8	938.7	975.3
57.5°	698.3	725.8	815.0	897.5	936.4
60°	634.2	668.5	767.0	854.0	895.2
62.5°	567.8	609.0	718.9	808.2	851.7
65°	499.1	547.2	668.5	762.4	805.9
67.5°	428.1	492.2	618.2	716.6	760.1
70°	357.2	432.7	565.5	666.2	709.7
72.5°	290.8	377.8	512.8	606.7	615.9
75°	226.7	322.8	457.9	467.0	451.0
77.5°	169.4	267.9	377.8	336.5	334.3
80°	121.3	215.2	242.7	249.6	251.8
82.5°	80.1	162.6	158.0	162.6	160.3
85°	48.1	80.1	82.4	80.1	75.6
87.5°	22.9	29.8	22.9	20.6	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)