

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: P263709

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263709
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4614.9 lumens
Efficiency: N/A
Efficacy: 92.6 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

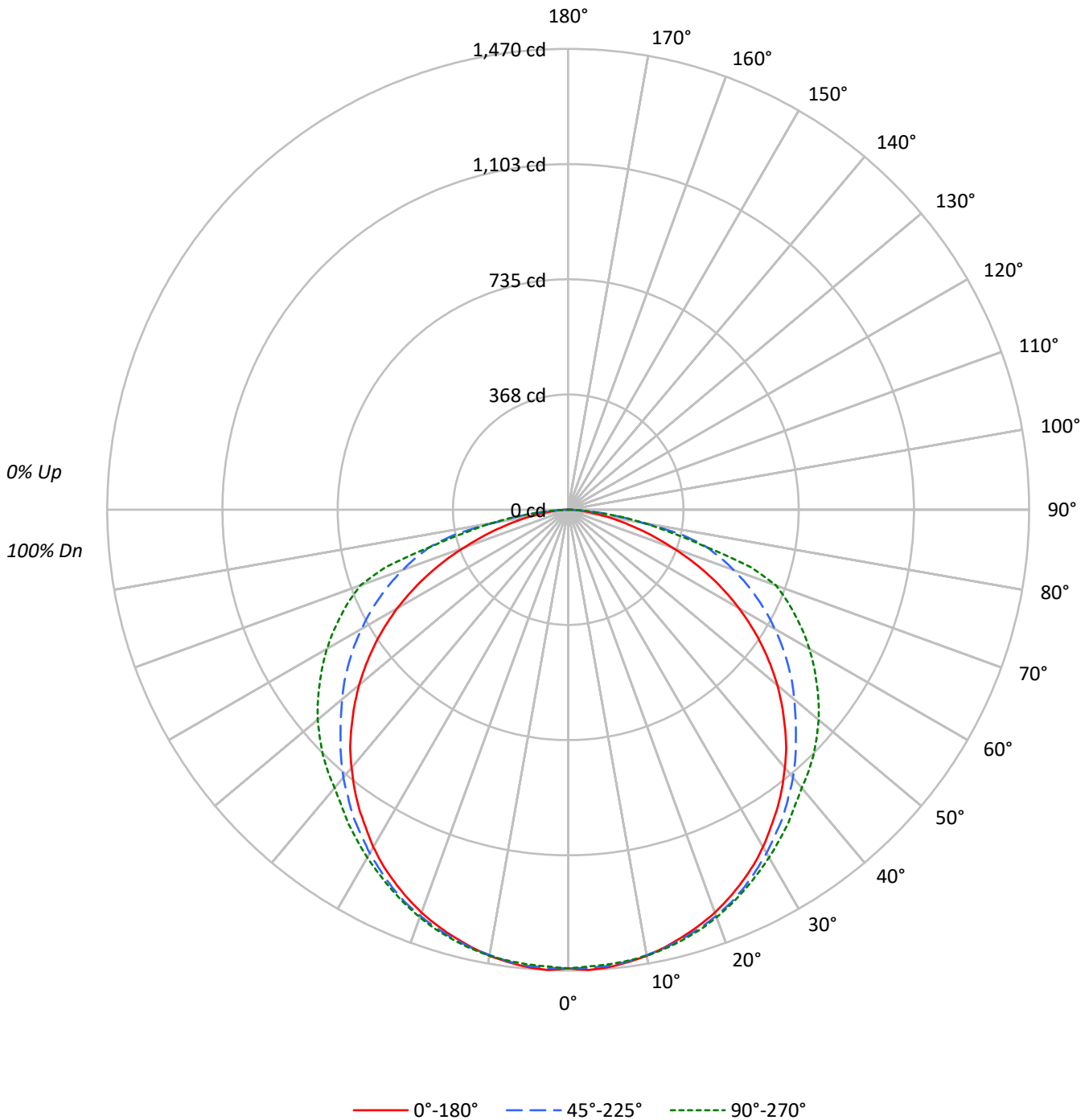
Input Watts (W): 49.848
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1968	1968	1968
5°	1979	1973	1967
10°	1974	1971	1974
15°	1965	1971	1978
20°	1958	1974	1981
25°	1946	1973	1983
30°	1931	1966	1991
35°	1910	1963	2008
40°	1887	1959	2035
45°	1859	1954	2105
50°	1821	1969	2183
55°	1769	2004	2270
60°	1693	2048	2390
65°	1577	2112	2546
70°	1394	2207	2770
75°	1169	2362	2326
80°	933	1866	1936
85°	736	1263	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	3.0
10°-20°	399.3	8.7
20°-30°	610.0	13.2
30°-40°	745.7	16.2
40°-50°	798.2	17.3
50°-60°	765.6	16.6
60°-70°	646.5	14.0
70°-80°	413.1	9.0
80°-90°	97.7	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°	1148.1	24.9
0°-40°	1893.8	41.0
0°-60°	3457.6	74.9
0°-90°	4614.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4614.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1465	1456	1461	1458	1456	139
15°	1411	1406	1415	1420	1420	398
25°	1311	1308	1329	1334	1336	604
35°	1163	1172	1195	1211	1222	727
45°	977	993	1027	1074	1106	753
55°	754	779	854	931	968	673
65°	495	543	663	756	800	488
75°	225	320	454	463	448	242
85°	48	80	82	80	75	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.0	1463.0	1463.0	1463.0	1463.0
2.5°	1469.8	1460.7	1463.0	1463.0	1458.5
5°	1465.3	1456.2	1460.7	1458.5	1456.2
7.5°	1456.2	1449.4	1453.9	1453.9	1451.6
10°	1444.8	1438.0	1442.5	1444.8	1444.8
12.5°	1428.9	1424.4	1431.2	1431.2	1433.5
15°	1410.7	1406.2	1415.3	1419.8	1419.8
17.5°	1390.3	1388.0	1399.4	1401.7	1403.9
20°	1367.6	1365.3	1378.9	1378.9	1383.5
22.5°	1340.3	1338.0	1356.2	1356.2	1360.8
25°	1310.8	1308.5	1329.0	1333.5	1335.8
27.5°	1279.0	1276.7	1297.2	1304.0	1308.5
30°	1242.6	1242.6	1265.4	1274.4	1281.3
32.5°	1201.7	1208.6	1229.0	1242.6	1251.7
35°	1163.1	1172.2	1194.9	1210.8	1222.2
37.5°	1120.0	1129.0	1154.0	1174.5	1188.1
40°	1074.5	1085.9	1115.4	1138.1	1158.6
42.5°	1029.1	1040.5	1072.3	1106.3	1133.6
45°	976.8	992.7	1026.8	1074.5	1106.3
47.5°	924.6	940.5	983.7	1042.7	1074.5
50°	870.1	888.2	940.5	1008.6	1042.7
52.5°	813.3	833.7	899.6	972.3	1006.4
55°	754.2	779.2	854.2	931.4	967.8
57.5°	692.9	720.1	808.7	890.5	929.1
60°	629.3	663.3	761.0	847.4	888.2
62.5°	563.4	604.3	713.3	801.9	845.1
65°	495.2	542.9	663.3	756.5	799.6
67.5°	424.8	488.4	613.4	711.1	754.2
70°	354.4	429.4	561.1	661.1	704.2
72.5°	288.5	374.8	508.9	602.0	611.1
75°	224.9	320.3	454.3	463.4	447.5
77.5°	168.1	265.8	374.8	333.9	331.7
80°	120.4	213.5	240.8	247.6	249.9
82.5°	79.5	161.3	156.7	161.3	159.0
85°	47.7	79.5	81.8	79.5	75.0
87.5°	22.7	29.5	22.7	20.4	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)