

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: P263862

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263862
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-LD5-75-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4747.0 lumens
Efficiency: N/A
Efficacy: 79.8 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

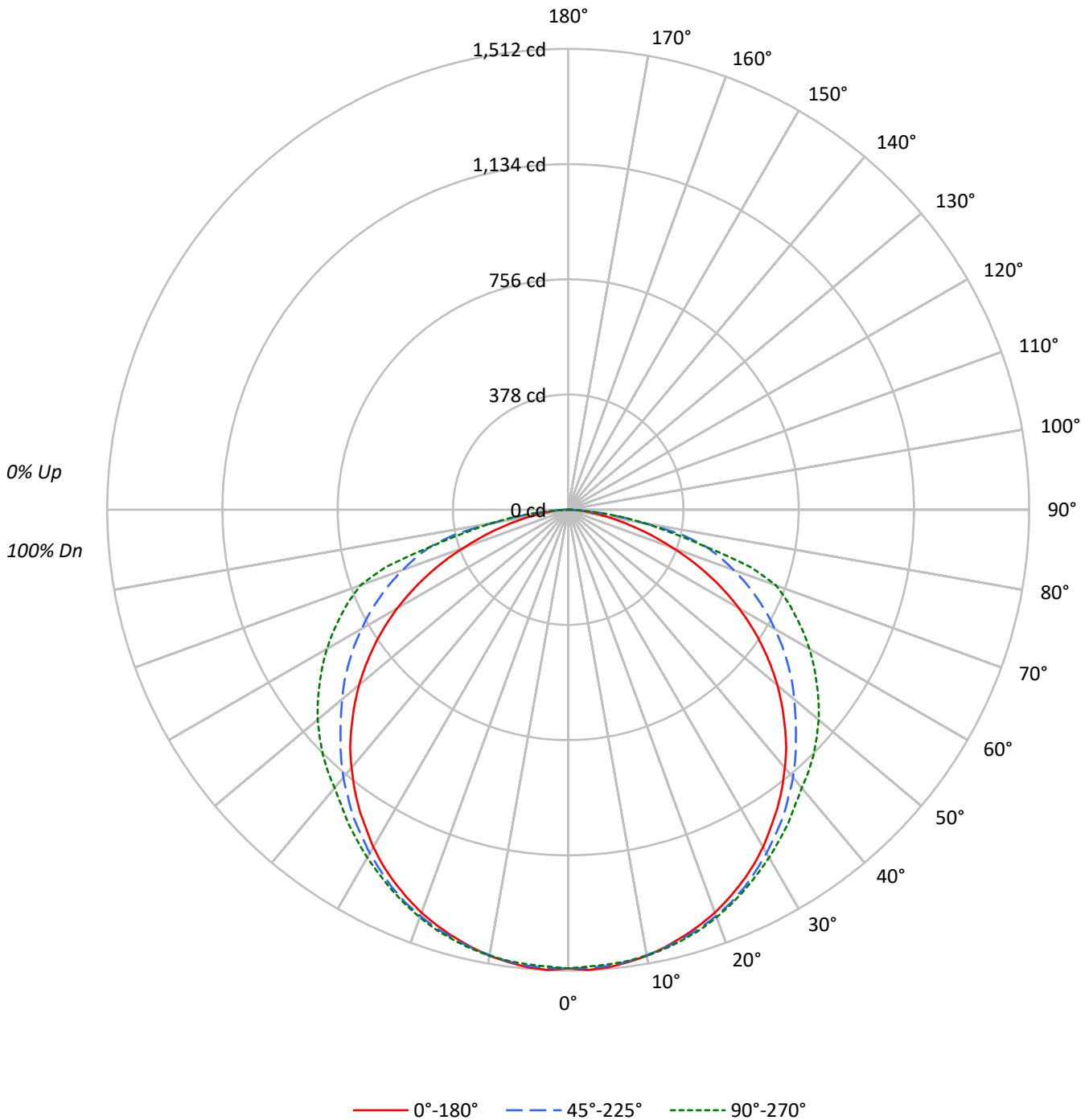
Input Watts (W): 59.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2025	2025	2025
5°	2036	2029	2023
10°	2030	2027	2030
15°	2021	2028	2034
20°	2014	2031	2038
25°	2002	2029	2040
30°	1986	2022	2048
35°	1965	2019	2065
40°	1941	2015	2093
45°	1912	2010	2165
50°	1873	2025	2245
55°	1820	2061	2335
60°	1742	2106	2459
65°	1622	2172	2619
70°	1434	2271	2850
75°	1202	2429	2393
80°	959	1919	1991
85°	758	1298	1190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	3.0
10°-20°	410.8	8.7
20°-30°	627.4	13.2
30°-40°	767.1	16.2
40°-50°	821.0	17.3
50°-60°	787.5	16.6
60°-70°	665.0	14.0
70°-80°	425.0	9.0
80°-90°	100.5	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°	1180.9	24.9
0°-40°	1948.0	41.0
0°-60°	3556.6	74.9
0°-90°	4747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1507	1498	1502	1500	1498	143
15°	1451	1446	1456	1460	1460	410
25°	1348	1346	1367	1372	1374	621
35°	1196	1206	1229	1246	1257	748
45°	1005	1021	1056	1105	1138	775
55°	776	802	879	958	995	692
65°	509	558	682	778	822	502
75°	231	330	467	477	460	249
85°	49	82	84	82	77	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1504.8	1504.8	1504.8	1504.8	1504.8
2.5°	1511.8	1502.5	1504.8	1504.8	1500.2
5°	1507.2	1497.8	1502.5	1500.2	1497.8
7.5°	1497.8	1490.8	1495.5	1495.5	1493.2
10°	1486.1	1479.1	1483.8	1486.1	1486.1
12.5°	1469.8	1465.1	1472.1	1472.1	1474.5
15°	1451.1	1446.4	1455.8	1460.4	1460.4
17.5°	1430.1	1427.7	1439.4	1441.7	1444.1
20°	1406.7	1404.4	1418.4	1418.4	1423.1
22.5°	1378.7	1376.3	1395.0	1395.0	1399.7
25°	1348.3	1345.9	1367.0	1371.6	1374.0
27.5°	1315.6	1313.2	1334.3	1341.3	1345.9
30°	1278.2	1278.2	1301.5	1310.9	1317.9
32.5°	1236.1	1243.1	1264.2	1278.2	1287.5
35°	1196.4	1205.7	1229.1	1245.5	1257.1
37.5°	1152.0	1161.3	1187.0	1208.1	1222.1
40°	1105.3	1116.9	1147.3	1170.7	1191.7
42.5°	1058.5	1070.2	1102.9	1138.0	1166.0
45°	1004.8	1021.1	1056.2	1105.3	1138.0
47.5°	951.0	967.4	1011.8	1072.5	1105.3
50°	895.0	913.7	967.4	1037.5	1072.5
52.5°	836.5	857.6	925.3	1000.1	1035.2
55°	775.8	801.5	878.6	958.0	995.4
57.5°	712.7	740.7	831.9	916.0	955.7
60°	647.3	682.3	782.8	871.6	913.7
62.5°	579.5	621.6	733.7	824.9	869.3
65°	509.4	558.5	682.3	778.1	822.5
67.5°	437.0	502.4	630.9	731.4	775.8
70°	364.5	441.6	577.2	680.0	724.4
72.5°	296.8	385.6	523.4	619.2	628.6
75°	231.3	329.5	467.3	476.7	460.3
77.5°	172.9	273.4	385.6	343.5	341.2
80°	123.8	219.7	247.7	254.7	257.0
82.5°	81.8	165.9	161.2	165.9	163.6
85°	49.1	81.8	84.1	81.8	77.1
87.5°	23.4	30.4	23.4	21.0	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)