

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: P260729

Luminaire Tested: **24CZ-LD5-45-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4115.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

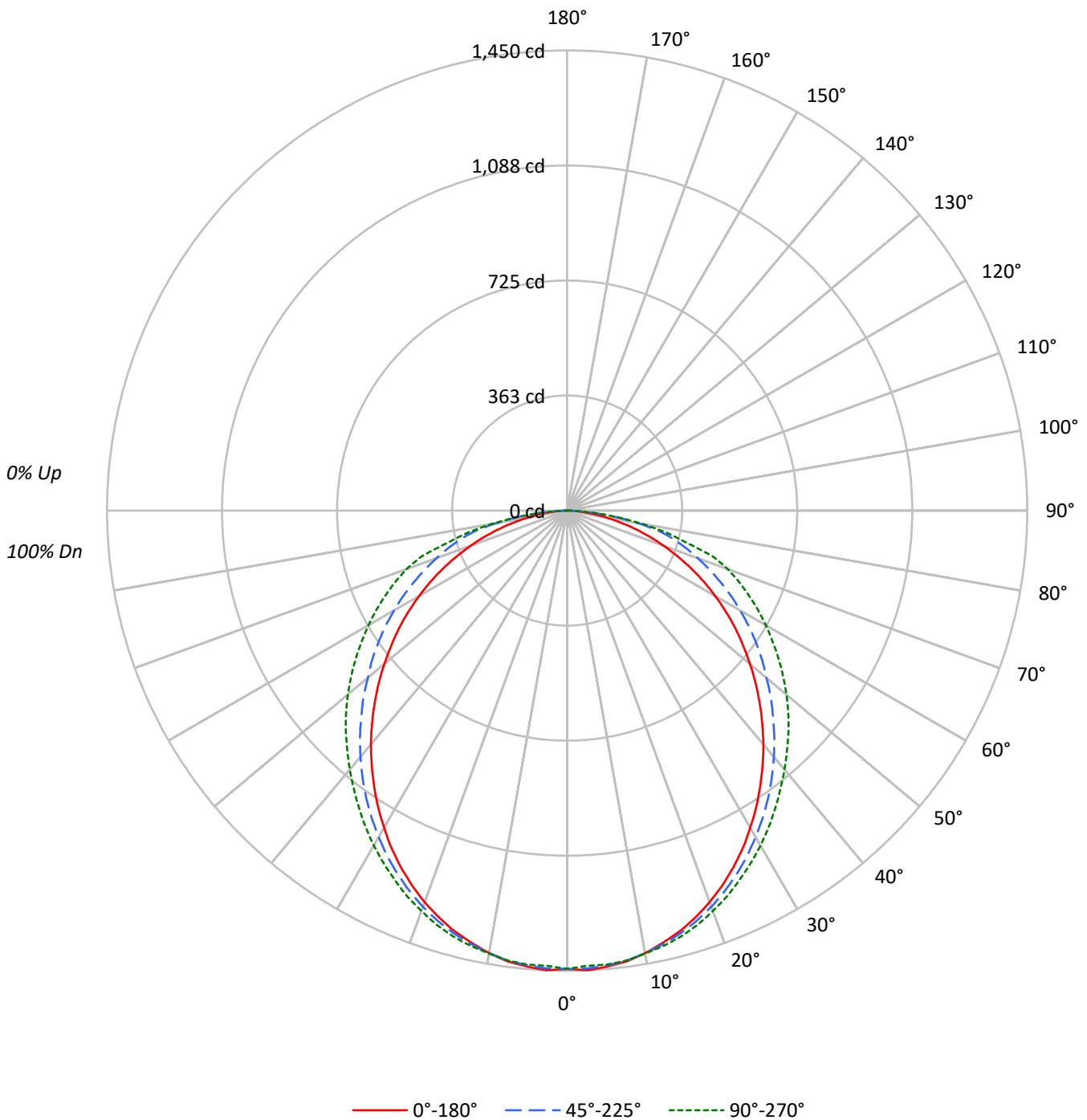
Input Watts (W): 31.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1943	1943	1943
5°	1949	1943	1939
10°	1935	1935	1937
15°	1912	1921	1935
20°	1880	1902	1923
25°	1841	1876	1908
30°	1793	1845	1893
35°	1743	1814	1879
40°	1690	1779	1871
45°	1633	1745	1877
50°	1575	1716	1887
55°	1517	1705	1907
60°	1448	1695	1945
65°	1372	1696	2010
70°	1269	1724	2117
75°	1135	1802	2014
80°	950	1725	1845
85°	718	1326	1261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	3.3
10°-20°	388.4	9.4
20°-30°	580.6	14.1
30°-40°	688.8	16.7
40°-50°	709.0	17.2
50°-60°	650.4	15.8
60°-70°	525.9	12.8
70°-80°	341.3	8.3
80°-90°	94.1	2.3
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°	1105.5	26.9
0°-40°	1794.3	43.6
0°-60°	3153.7	76.6
0°-90°	4115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1443	1433	1438	1437	1436	137
15°	1372	1367	1379	1385	1389	387
25°	1240	1241	1264	1275	1285	571
35°	1061	1069	1105	1129	1144	663
45°	858	872	917	961	986	662
55°	647	666	727	786	813	578
65°	431	456	533	603	631	426
75°	218	259	347	388	388	232
85°	46	79	86	83	82	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1444.2	1444.2	1444.2	1444.2	1444.2
2.5°	1449.8	1438.5	1444.2	1442.7	1435.7
5°	1442.7	1432.9	1438.5	1437.1	1435.7
7.5°	1432.9	1423.0	1430.1	1428.7	1430.1
10°	1416.0	1407.5	1416.0	1417.4	1417.4
12.5°	1394.8	1387.8	1399.1	1401.9	1404.7
15°	1372.3	1366.7	1379.3	1385.0	1389.2
17.5°	1344.1	1339.9	1355.4	1362.4	1368.1
20°	1313.1	1311.7	1328.6	1335.7	1342.7
22.5°	1277.9	1277.9	1297.6	1306.1	1315.9
25°	1239.9	1241.3	1263.8	1275.1	1284.9
27.5°	1199.0	1200.4	1227.2	1241.3	1252.5
30°	1153.9	1159.5	1187.7	1206.0	1218.7
32.5°	1108.8	1115.9	1146.9	1168.0	1182.1
35°	1060.9	1069.4	1104.6	1128.6	1144.0
37.5°	1011.6	1021.5	1059.5	1086.3	1104.6
40°	962.3	973.6	1013.0	1044.0	1065.1
42.5°	910.2	922.8	966.5	1003.2	1025.7
45°	858.0	872.1	917.2	960.9	986.2
47.5°	805.9	822.8	870.7	918.6	945.4
50°	752.4	769.3	820.0	874.9	901.7
52.5°	698.8	718.6	774.9	831.3	858.0
55°	646.7	666.4	727.0	786.2	813.0
57.5°	593.2	612.9	679.1	741.1	767.9
60°	538.2	560.8	629.8	693.2	722.8
62.5°	484.7	508.6	581.9	649.5	677.7
65°	431.1	456.5	532.6	603.0	631.2
67.5°	376.2	405.8	484.7	556.5	586.1
70°	322.6	355.0	438.2	510.0	538.2
72.5°	270.5	305.7	391.7	464.9	481.9
75°	218.4	259.2	346.6	387.5	387.5
77.5°	169.1	214.2	295.9	311.4	319.8
80°	122.6	171.9	222.6	240.9	238.1
82.5°	81.7	131.0	159.2	159.2	155.0
85°	46.5	78.9	85.9	83.1	81.7
87.5°	19.7	29.6	26.8	21.1	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)