

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: P261149

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4197.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

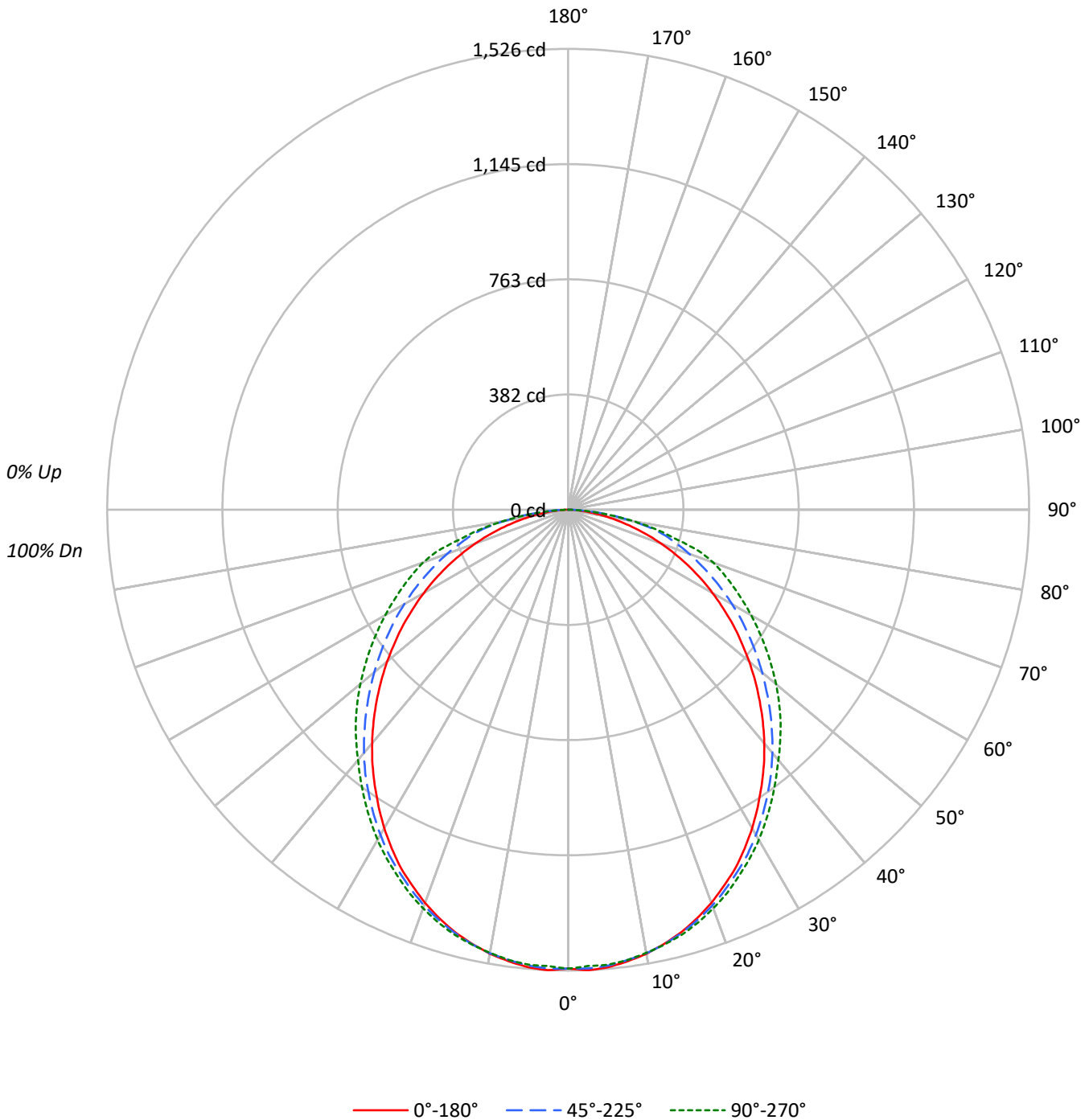
Input Watts (W): 31.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2044	2044	2044
5°	2054	2046	2043
10°	2040	2038	2036
15°	2017	2021	2029
20°	1984	1998	2012
25°	1945	1965	1986
30°	1892	1931	1961
35°	1833	1890	1929
40°	1773	1847	1901
45°	1706	1799	1892
50°	1637	1754	1879
55°	1566	1717	1874
60°	1484	1687	1883
65°	1396	1667	1921
70°	1286	1675	2011
75°	1140	1735	1873
80°	952	1645	1688
85°	712	1315	1207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	3.4
10°-20°	408.5	9.7
20°-30°	608.8	14.5
30°-40°	716.7	17.1
40°-50°	728.3	17.4
50°-60°	654.8	15.6
60°-70°	517.3	12.3
70°-80°	328.2	7.8
80°-90°	90.6	2.2
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°	1161.0	27.7
0°-40°	1877.8	44.7
0°-60°	3260.9	77.7
0°-90°	4197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1521	1508	1515	1512	1512	144
15°	1448	1441	1451	1455	1456	408
25°	1310	1308	1324	1332	1338	602
35°	1116	1123	1151	1163	1174	698
45°	897	909	945	973	994	692
55°	668	684	732	779	799	596
65°	438	461	524	581	603	434
75°	219	257	334	363	360	233
85°	46	80	85	78	78	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1519.4	1519.4	1519.4	1519.4	1519.4
2.5°	1526.4	1515.2	1520.8	1518.0	1512.4
5°	1520.8	1508.2	1515.2	1512.4	1512.4
7.5°	1508.2	1498.4	1504.0	1502.6	1504.0
10°	1492.9	1483.1	1491.5	1491.5	1490.1
12.5°	1471.9	1463.5	1473.3	1473.3	1474.7
15°	1448.2	1441.2	1451.0	1455.2	1456.5
17.5°	1418.8	1411.9	1424.4	1428.6	1432.8
20°	1385.3	1382.5	1395.1	1399.3	1404.9
22.5°	1347.6	1347.6	1360.2	1365.8	1374.2
25°	1309.9	1308.5	1323.9	1332.3	1337.8
27.5°	1265.2	1266.6	1286.2	1294.6	1301.5
30°	1217.7	1220.5	1242.9	1252.7	1262.4
32.5°	1167.5	1173.1	1198.2	1209.4	1219.1
35°	1115.8	1122.8	1150.7	1163.3	1174.5
37.5°	1064.1	1073.9	1103.2	1115.8	1128.4
40°	1009.7	1018.0	1051.6	1066.9	1082.3
42.5°	953.8	965.0	998.5	1020.8	1039.0
45°	896.6	909.1	945.4	973.4	994.3
47.5°	839.3	856.1	891.0	928.7	946.8
50°	782.0	798.8	837.9	879.8	897.9
52.5°	723.4	740.1	784.8	828.1	847.7
55°	667.5	684.3	731.8	779.2	798.8
57.5°	608.9	627.0	680.1	729.0	748.5
60°	551.6	569.8	627.0	678.7	699.6
62.5°	495.8	515.3	575.4	629.8	650.8
65°	438.5	460.8	523.7	580.9	603.3
67.5°	382.6	407.8	473.4	533.5	557.2
70°	326.8	356.1	425.9	487.4	511.1
72.5°	272.3	304.4	378.5	439.9	452.5
75°	219.3	257.0	333.8	363.1	360.3
77.5°	169.0	210.9	283.5	289.1	297.5
80°	122.9	169.0	212.3	223.4	217.9
82.5°	81.0	127.1	152.2	146.6	145.2
85°	46.1	79.6	85.2	78.2	78.2
87.5°	19.6	32.1	27.9	20.9	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)