

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: P261156

Luminaire Tested: **24CZ-LD5-45-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261156
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4770.0 lumens
Efficiency: N/A
Efficacy: 147.8 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

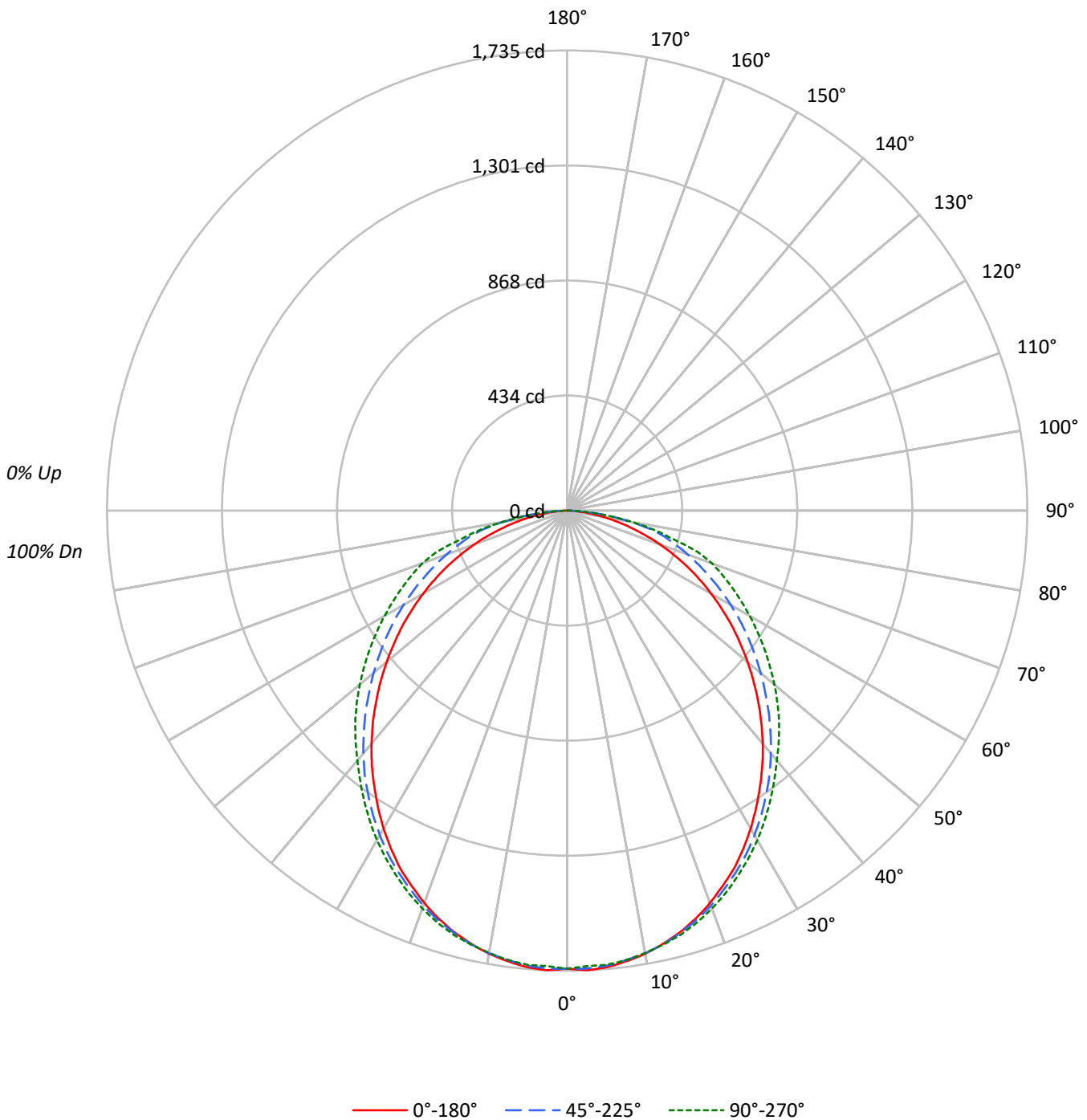
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2323	2323	2323
5°	2334	2326	2322
10°	2318	2316	2314
15°	2293	2297	2306
20°	2254	2270	2286
25°	2210	2234	2257
30°	2150	2195	2229
35°	2083	2148	2192
40°	2015	2099	2160
45°	1939	2045	2150
50°	1860	1993	2136
55°	1780	1951	2130
60°	1687	1918	2140
65°	1587	1895	2183
70°	1461	1904	2285
75°	1295	1972	2129
80°	1082	1869	1918
85°	809	1494	1372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	3.4
10°-20°	464.3	9.7
20°-30°	692.0	14.5
30°-40°	814.6	17.1
40°-50°	827.8	17.4
50°-60°	744.2	15.6
60°-70°	588.0	12.3
70°-80°	373.0	7.8
80°-90°	102.9	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°	1319.6	27.7
0°-40°	2134.1	44.7
0°-60°	3706.1	77.7
0°-90°	4770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1728	1714	1722	1719	1719	164
15°	1646	1638	1649	1654	1655	464
25°	1489	1487	1505	1514	1520	685
35°	1268	1276	1308	1322	1335	793
45°	1019	1033	1074	1106	1130	786
55°	759	778	832	886	908	678
65°	498	524	595	660	686	494
75°	249	292	379	413	410	265
85°	52	90	97	89	89	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.8	1726.8	1726.8	1726.8	1726.8
2.5°	1734.8	1722.1	1728.4	1725.2	1718.9
5°	1728.4	1714.1	1722.1	1718.9	1718.9
7.5°	1714.1	1703.0	1709.4	1707.8	1709.4
10°	1696.7	1685.6	1695.1	1695.1	1693.5
12.5°	1672.9	1663.3	1674.5	1674.5	1676.0
15°	1645.9	1637.9	1649.1	1653.8	1655.4
17.5°	1612.6	1604.6	1618.9	1623.7	1628.4
20°	1574.5	1571.3	1585.6	1590.3	1596.7
22.5°	1531.6	1531.6	1545.9	1552.2	1561.8
25°	1488.8	1487.2	1504.6	1514.1	1520.5
27.5°	1438.0	1439.6	1461.8	1471.3	1479.2
30°	1384.0	1387.2	1412.6	1423.7	1434.8
32.5°	1326.9	1333.2	1361.8	1374.5	1385.6
35°	1268.1	1276.1	1307.8	1322.1	1334.8
37.5°	1209.4	1220.5	1253.9	1268.1	1282.4
40°	1147.5	1157.0	1195.1	1212.6	1230.0
42.5°	1084.0	1096.7	1134.8	1160.2	1180.8
45°	1019.0	1033.2	1074.5	1106.2	1130.1
47.5°	953.9	972.9	1012.6	1055.5	1076.1
50°	888.8	907.9	952.3	999.9	1020.5
52.5°	822.1	841.2	892.0	941.2	963.4
55°	758.7	777.7	831.7	885.6	907.9
57.5°	692.0	712.6	772.9	828.5	850.7
60°	626.9	647.6	712.6	771.4	795.2
62.5°	563.4	585.7	653.9	715.8	739.6
65°	498.4	523.8	595.2	660.3	685.7
67.5°	434.9	463.5	538.0	606.3	633.3
70°	371.4	404.7	484.1	553.9	580.9
72.5°	309.5	346.0	430.1	500.0	514.2
75°	249.2	292.0	379.3	412.7	409.5
77.5°	192.0	239.7	322.2	328.5	338.1
80°	139.7	192.0	241.2	253.9	247.6
82.5°	92.1	144.4	173.0	166.7	165.1
85°	52.4	90.5	96.8	88.9	88.9
87.5°	22.2	36.5	31.7	23.8	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)