

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: P261151

Luminaire Tested: **24CZ-LD5-45-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261151
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4468.0 lumens
Efficiency: N/A
Efficacy: 141.3 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

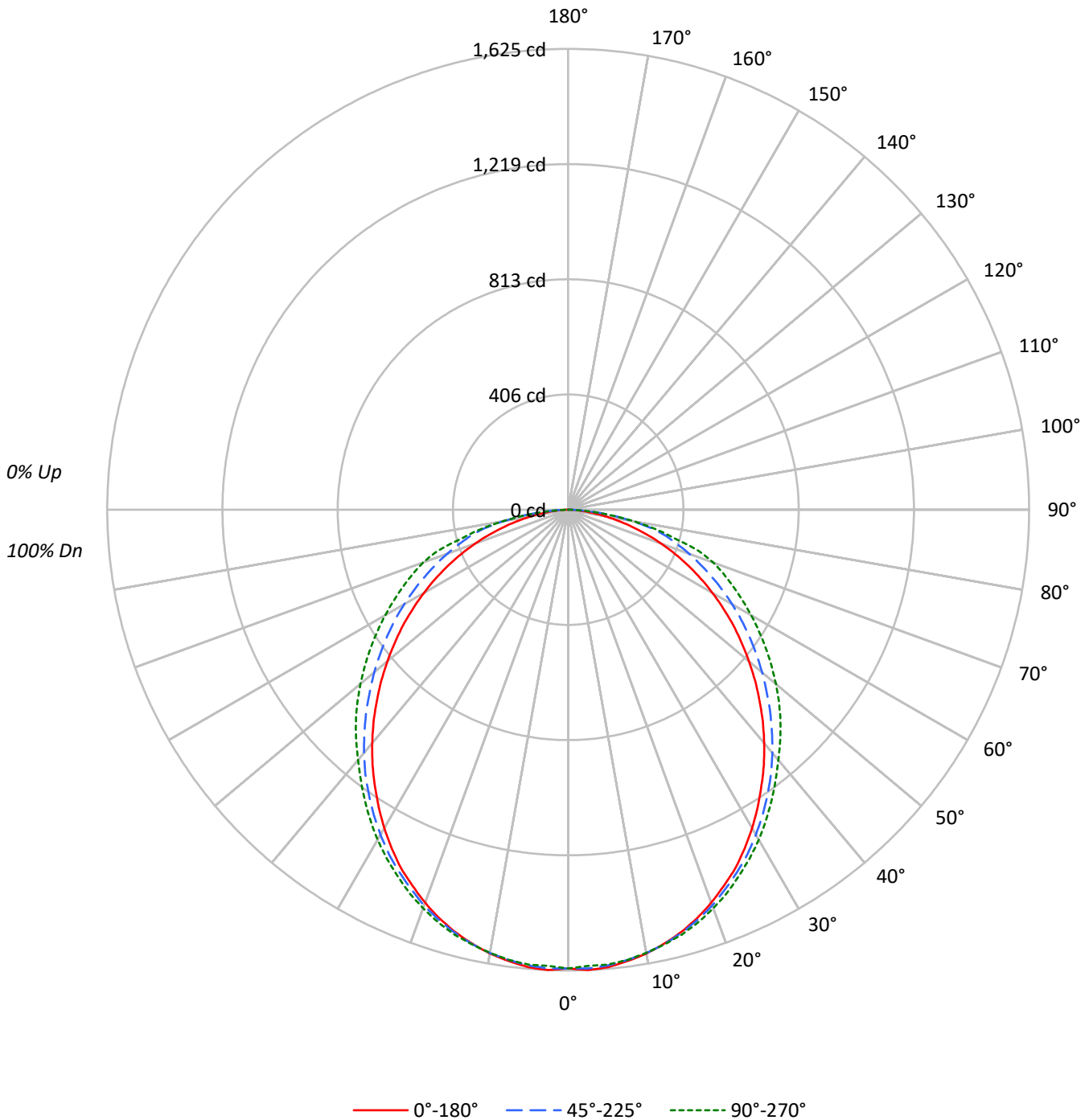
Input Watts (W): 31.62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2176	2176	2176
5°	2187	2179	2175
10°	2171	2169	2167
15°	2148	2152	2160
20°	2112	2127	2141
25°	2070	2092	2114
30°	2014	2056	2088
35°	1951	2012	2054
40°	1888	1966	2024
45°	1816	1915	2014
50°	1743	1867	2001
55°	1667	1827	1995
60°	1580	1796	2004
65°	1486	1775	2045
70°	1369	1784	2140
75°	1213	1847	1994
80°	1013	1751	1797
85°	758	1400	1286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	3.4
10°-20°	434.9	9.7
20°-30°	648.2	14.5
30°-40°	763.0	17.1
40°-50°	775.4	17.4
50°-60°	697.1	15.6
60°-70°	550.7	12.3
70°-80°	349.4	7.8
80°-90°	96.4	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°	1236.0	27.7
0°-40°	1999.0	44.7
0°-60°	3471.5	77.7
0°-90°	4468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1618	1618	1618	1618	1618	
5°	1619	1606	1613	1610	1610	154
15°	1542	1534	1545	1549	1551	434
25°	1394	1393	1409	1418	1424	641
35°	1188	1195	1225	1238	1250	743
45°	954	968	1006	1036	1058	736
55°	711	728	779	830	850	635
65°	467	491	558	618	642	462
75°	233	274	355	386	384	248
85°	49	85	91	83	83	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.5	1617.5	1617.5	1617.5	1617.5
2.5°	1624.9	1613.0	1619.0	1616.0	1610.1
5°	1619.0	1605.6	1613.0	1610.1	1610.1
7.5°	1605.6	1595.2	1601.1	1599.7	1601.1
10°	1589.3	1578.8	1587.8	1587.8	1586.3
12.5°	1567.0	1558.0	1568.4	1568.4	1569.9
15°	1541.7	1534.2	1544.7	1549.1	1550.6
17.5°	1510.5	1503.0	1516.4	1520.9	1525.3
20°	1474.8	1471.8	1485.2	1489.6	1495.6
22.5°	1434.6	1434.6	1448.0	1454.0	1462.9
25°	1394.5	1393.0	1409.4	1418.3	1424.2
27.5°	1346.9	1348.4	1369.2	1378.1	1385.6
30°	1296.4	1299.4	1323.1	1333.5	1344.0
32.5°	1242.9	1248.8	1275.6	1287.5	1297.9
35°	1187.9	1195.3	1225.0	1238.4	1250.3
37.5°	1132.8	1143.3	1174.5	1187.9	1201.2
40°	1074.9	1083.8	1119.5	1135.8	1152.2
42.5°	1015.4	1027.3	1063.0	1086.8	1106.1
45°	954.4	967.8	1006.5	1036.2	1058.5
47.5°	893.5	911.3	948.5	988.6	1008.0
50°	832.5	850.4	892.0	936.6	955.9
52.5°	770.1	787.9	835.5	881.6	902.4
55°	710.6	728.5	779.0	829.6	850.4
57.5°	648.2	667.5	724.0	776.0	796.9
60°	587.2	606.6	667.5	722.5	744.8
62.5°	527.8	548.6	612.5	670.5	692.8
65°	466.8	490.6	557.5	618.5	642.2
67.5°	407.3	434.1	504.0	567.9	593.2
70°	347.9	379.1	453.4	518.8	544.1
72.5°	289.9	324.1	402.9	468.3	481.7
75°	233.4	273.5	355.3	386.5	383.6
77.5°	179.9	224.5	301.8	307.7	316.7
80°	130.8	179.9	226.0	237.9	231.9
82.5°	86.2	135.3	162.0	156.1	154.6
85°	49.1	84.7	90.7	83.3	83.3
87.5°	20.8	34.2	29.7	22.3	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)