

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: P260956

Luminaire Tested: **24CZ-LD5-45SE-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260956
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-LD5-45SE-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3878.0 lumens
Efficiency: N/A
Efficacy: 110.6 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

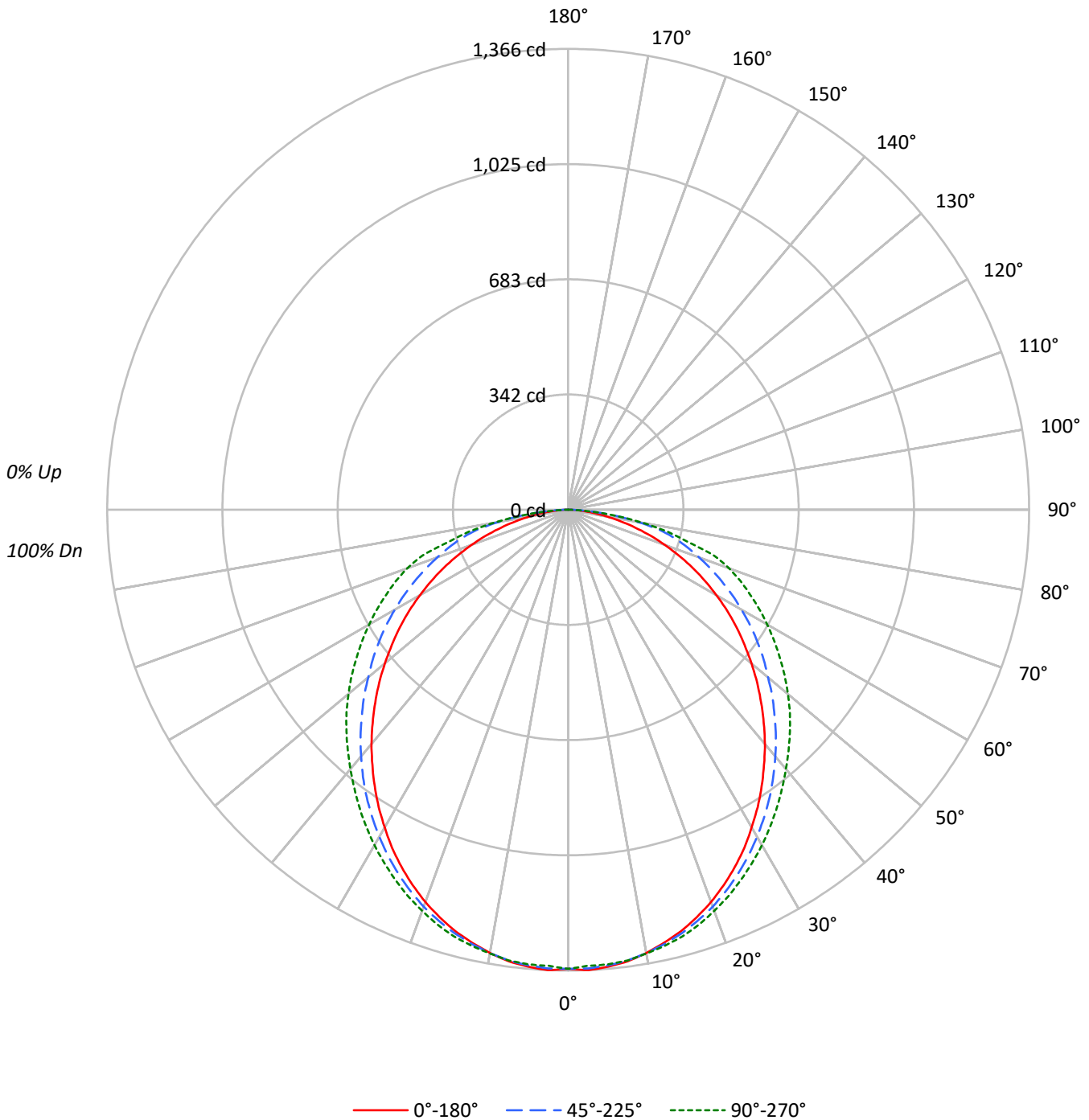
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1831	1831	1831
5°	1836	1831	1827
10°	1823	1823	1825
15°	1802	1811	1824
20°	1772	1793	1812
25°	1735	1768	1798
30°	1690	1739	1784
35°	1642	1710	1771
40°	1593	1677	1763
45°	1539	1645	1768
50°	1484	1618	1779
55°	1430	1607	1797
60°	1365	1597	1833
65°	1294	1598	1894
70°	1196	1624	1995
75°	1070	1698	1898
80°	895	1626	1739
85°	676	1250	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	3.3
10°-20°	366.0	9.4
20°-30°	547.2	14.1
30°-40°	649.2	16.7
40°-50°	668.1	17.2
50°-60°	612.9	15.8
60°-70°	495.6	12.8
70°-80°	321.6	8.3
80°-90°	88.7	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°	1041.8	26.9
0°-40°	1691.0	43.6
0°-60°	2972.1	76.6
0°-90°	3878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1360	1350	1356	1354	1353	129
15°	1293	1288	1300	1305	1309	364
25°	1168	1170	1191	1202	1211	538
35°	1000	1008	1041	1064	1078	625
45°	809	822	864	906	929	624
55°	610	628	685	741	766	544
65°	406	430	502	568	595	402
75°	206	244	327	365	365	219
85°	44	74	81	78	77	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.0	1361.0	1361.0	1361.0	1361.0
2.5°	1366.3	1355.7	1361.0	1359.6	1353.0
5°	1359.6	1350.4	1355.7	1354.3	1353.0
7.5°	1350.4	1341.1	1347.7	1346.4	1347.7
10°	1334.4	1326.5	1334.4	1335.7	1335.7
12.5°	1314.5	1307.9	1318.5	1321.1	1323.8
15°	1293.3	1287.9	1299.9	1305.2	1309.2
17.5°	1266.7	1262.7	1277.3	1284.0	1289.3
20°	1237.5	1236.2	1252.1	1258.7	1265.4
22.5°	1204.3	1204.3	1222.9	1230.9	1240.1
25°	1168.4	1169.8	1191.0	1201.6	1210.9
27.5°	1129.9	1131.3	1156.5	1169.8	1180.4
30°	1087.5	1092.8	1119.3	1136.6	1148.5
32.5°	1045.0	1051.6	1080.8	1100.7	1114.0
35°	999.8	1007.8	1041.0	1063.6	1078.2
37.5°	953.3	962.6	998.5	1023.7	1041.0
40°	906.9	917.5	954.7	983.9	1003.8
42.5°	857.7	869.7	910.9	945.4	966.6
45°	808.6	821.9	864.4	905.5	929.4
47.5°	759.5	775.4	820.6	865.7	890.9
50°	709.0	725.0	772.8	824.6	849.8
52.5°	658.6	677.2	730.3	783.4	808.6
55°	609.5	628.0	685.1	740.9	766.1
57.5°	559.0	577.6	640.0	698.4	723.6
60°	507.2	528.5	593.5	653.3	681.2
62.5°	456.8	479.3	548.4	612.1	638.7
65°	406.3	430.2	501.9	568.3	594.8
67.5°	354.5	382.4	456.8	524.5	552.4
70°	304.1	334.6	412.9	480.7	507.2
72.5°	254.9	288.1	369.1	438.2	454.1
75°	205.8	244.3	326.6	365.1	365.1
77.5°	159.3	201.8	278.8	293.4	301.4
80°	115.5	162.0	209.8	227.1	224.4
82.5°	77.0	123.5	150.0	150.0	146.1
85°	43.8	74.4	81.0	78.3	77.0
87.5°	18.6	27.9	25.2	19.9	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)