

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: P260866

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260866
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-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3837.0 lumens
Efficiency: N/A
Efficacy: 121.7 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

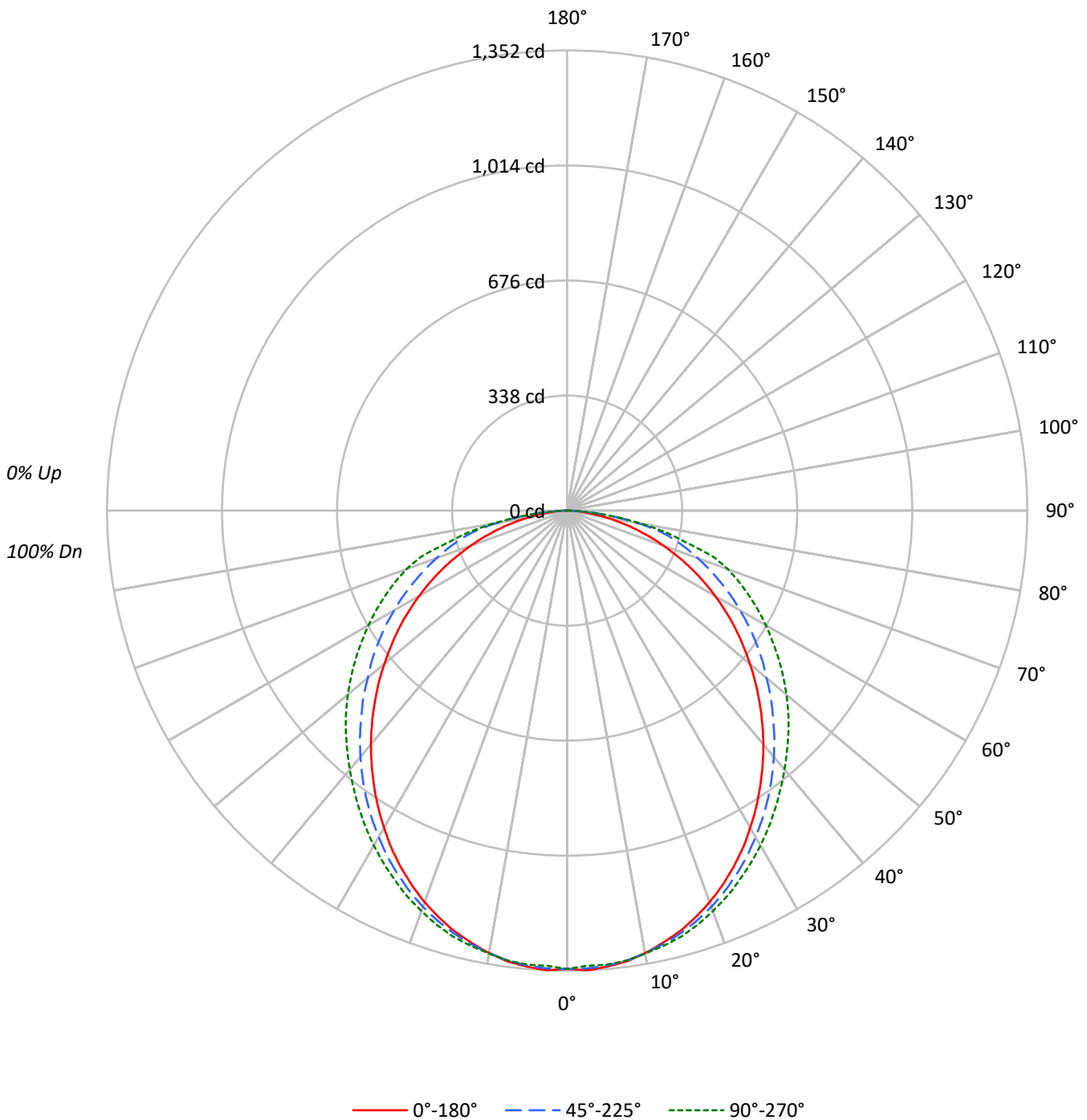
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1812	1812	1812
5°	1817	1812	1808
10°	1804	1804	1806
15°	1782	1792	1804
20°	1753	1774	1793
25°	1716	1749	1779
30°	1672	1721	1766
35°	1625	1692	1752
40°	1576	1659	1744
45°	1522	1627	1750
50°	1468	1600	1760
55°	1415	1590	1778
60°	1351	1580	1814
65°	1280	1581	1874
70°	1183	1607	1974
75°	1058	1680	1878
80°	886	1609	1720
85°	670	1237	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	3.3
10°-20°	362.2	9.4
20°-30°	541.4	14.1
30°-40°	642.3	16.7
40°-50°	661.1	17.2
50°-60°	606.5	15.8
60°-70°	490.4	12.8
70°-80°	318.2	8.3
80°-90°	87.8	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°	1030.8	26.9
0°-40°	1673.1	43.6
0°-60°	2940.7	76.6
0°-90°	3837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1345	1336	1341	1340	1339	128
15°	1280	1274	1286	1291	1295	360
25°	1156	1157	1178	1189	1198	532
35°	989	997	1030	1052	1067	619
45°	800	813	855	896	920	617
55°	603	621	678	733	758	539
65°	402	426	497	562	589	397
75°	204	242	323	361	361	216
85°	43	74	80	78	76	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.6	1346.6	1346.6	1346.6	1346.6
2.5°	1351.8	1341.3	1346.6	1345.3	1338.7
5°	1345.3	1336.1	1341.3	1340.0	1338.7
7.5°	1336.1	1326.9	1333.5	1332.1	1333.5
10°	1320.3	1312.4	1320.3	1321.6	1321.6
12.5°	1300.6	1294.0	1304.5	1307.2	1309.8
15°	1279.6	1274.3	1286.2	1291.4	1295.4
17.5°	1253.3	1249.4	1263.8	1270.4	1275.6
20°	1224.4	1223.1	1238.9	1245.4	1252.0
22.5°	1191.6	1191.6	1210.0	1217.8	1227.0
25°	1156.1	1157.4	1178.4	1188.9	1198.1
27.5°	1118.0	1119.3	1144.3	1157.4	1167.9
30°	1076.0	1081.2	1107.5	1124.6	1136.4
32.5°	1033.9	1040.5	1069.4	1089.1	1102.2
35°	989.2	997.1	1030.0	1052.3	1066.8
37.5°	943.3	952.5	987.9	1012.9	1030.0
40°	897.3	907.8	944.6	973.5	993.2
42.5°	848.7	860.5	901.2	935.4	956.4
45°	800.1	813.2	855.2	896.0	919.6
47.5°	751.5	767.2	811.9	856.6	881.5
50°	701.5	717.3	764.6	815.8	840.8
52.5°	651.6	670.0	722.6	775.1	800.1
55°	603.0	621.4	677.9	733.1	758.0
57.5°	553.1	571.5	633.2	691.0	716.0
60°	501.9	522.9	587.2	646.4	674.0
62.5°	451.9	474.3	542.6	605.6	631.9
65°	402.0	425.7	496.6	562.3	588.6
67.5°	350.8	378.4	451.9	518.9	546.5
70°	300.8	331.1	408.6	475.6	501.9
72.5°	252.2	285.1	365.2	433.5	449.3
75°	203.6	241.7	323.2	361.3	361.3
77.5°	157.6	199.7	275.9	290.3	298.2
80°	114.3	160.3	207.6	224.7	222.0
82.5°	76.2	122.2	148.5	148.5	144.5
85°	43.4	73.6	80.1	77.5	76.2
87.5°	18.4	27.6	25.0	19.7	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)