

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: P260873

Luminaire Tested: **24CZ-LD5-50-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260873
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-LD5-50-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3938.0 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

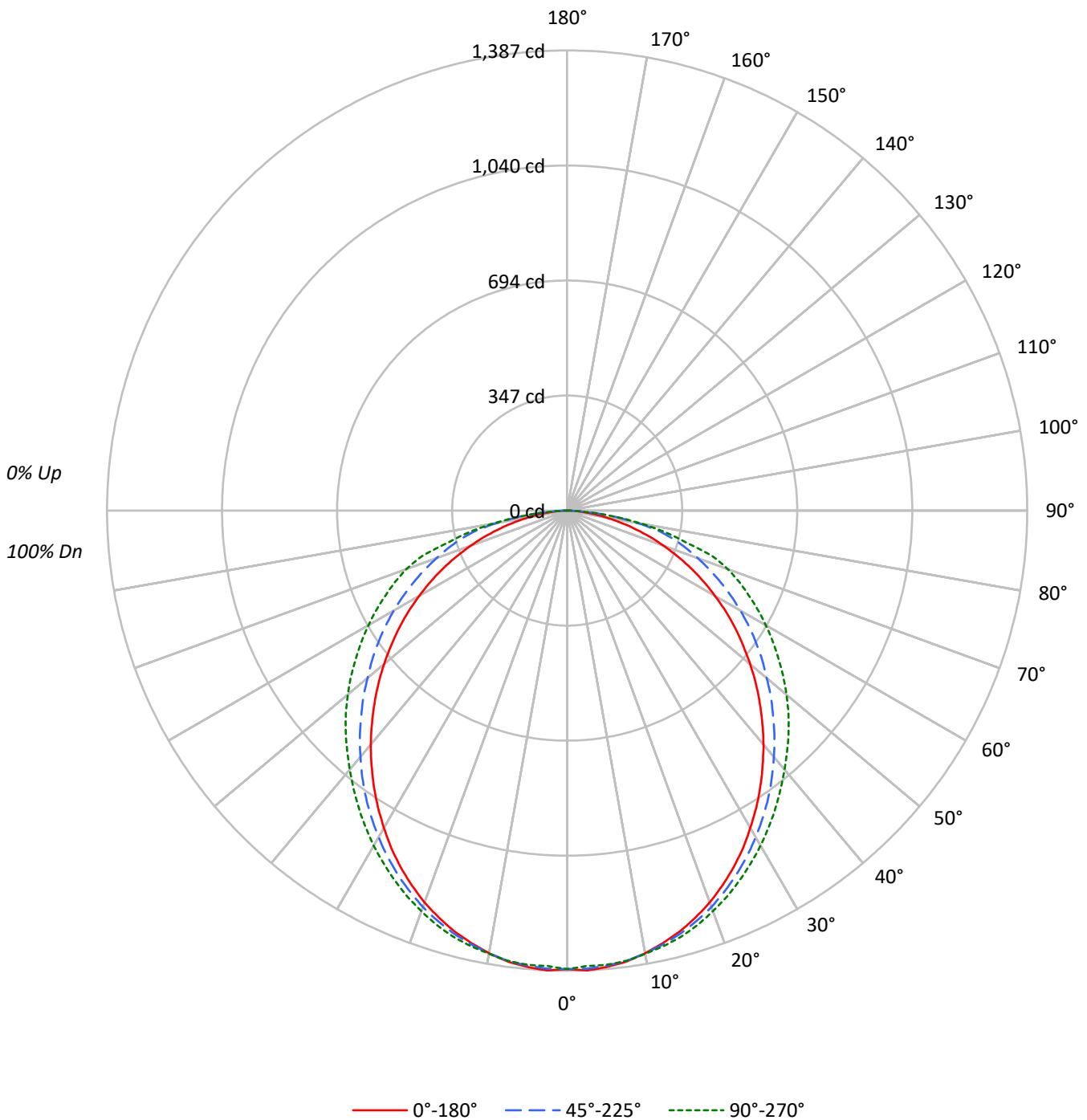
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1859	1859	1859
5°	1865	1859	1856
10°	1851	1851	1853
15°	1829	1839	1852
20°	1799	1821	1840
25°	1761	1795	1826
30°	1716	1766	1812
35°	1668	1736	1798
40°	1617	1703	1790
45°	1562	1670	1796
50°	1507	1643	1806
55°	1452	1632	1825
60°	1386	1622	1861
65°	1314	1623	1923
70°	1215	1650	2026
75°	1087	1724	1928
80°	909	1650	1766
85°	687	1269	1207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	3.3
10°-20°	371.7	9.4
20°-30°	555.7	14.1
30°-40°	659.2	16.7
40°-50°	678.5	17.2
50°-60°	622.4	15.8
60°-70°	503.3	12.8
70°-80°	326.6	8.3
80°-90°	90.1	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°	1058.0	26.9
0°-40°	1717.2	43.6
0°-60°	3018.1	76.6
0°-90°	3938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1381	1371	1377	1375	1374	131
15°	1313	1308	1320	1325	1329	370
25°	1186	1188	1209	1220	1230	546
35°	1015	1023	1057	1080	1095	635
45°	821	835	878	920	944	634
55°	619	638	696	752	778	553
65°	413	437	510	577	604	408
75°	209	248	332	371	371	222
85°	44	76	82	80	78	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.0	1382.0	1382.0	1382.0	1382.0
2.5°	1387.4	1376.6	1382.0	1380.7	1373.9
5°	1380.7	1371.2	1376.6	1375.3	1373.9
7.5°	1371.2	1361.8	1368.6	1367.2	1368.6
10°	1355.1	1347.0	1355.1	1356.4	1356.4
12.5°	1334.8	1328.1	1338.9	1341.6	1344.3
15°	1313.3	1307.9	1320.0	1325.4	1329.4
17.5°	1286.3	1282.3	1297.1	1303.8	1309.2
20°	1256.6	1255.3	1271.5	1278.2	1285.0
22.5°	1222.9	1222.9	1241.8	1249.9	1259.3
25°	1186.5	1187.9	1209.4	1220.2	1229.7
27.5°	1147.4	1148.8	1174.4	1187.9	1198.7
30°	1104.3	1109.7	1136.6	1154.2	1166.3
32.5°	1061.1	1067.9	1097.5	1117.8	1131.2
35°	1015.3	1023.4	1057.1	1080.0	1094.8
37.5°	968.1	977.5	1013.9	1039.6	1057.1
40°	920.9	931.7	969.4	999.1	1019.3
42.5°	871.0	883.2	925.0	960.0	981.6
45°	821.1	834.6	877.8	919.6	943.8
47.5°	771.2	787.4	833.3	879.1	904.7
50°	720.0	736.2	784.7	837.3	862.9
52.5°	668.8	687.6	741.6	795.5	821.1
55°	618.9	637.8	695.7	752.4	778.0
57.5°	567.6	586.5	649.9	709.2	734.8
60°	515.1	536.6	602.7	663.4	691.7
62.5°	463.8	486.7	556.9	621.6	648.5
65°	412.6	436.9	509.7	577.1	604.0
67.5°	360.0	388.3	463.8	532.6	560.9
70°	308.8	339.8	419.3	488.1	515.1
72.5°	258.9	292.6	374.8	444.9	461.1
75°	209.0	248.1	331.7	370.8	370.8
77.5°	161.8	204.9	283.1	298.0	306.1
80°	117.3	164.5	213.0	230.6	227.9
82.5°	78.2	125.4	152.4	152.4	148.3
85°	44.5	75.5	82.2	79.6	78.2
87.5°	18.9	28.3	25.6	20.2	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)