

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: P260623

Luminaire Tested: **24CZ-LD5-50SE-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260623
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-LD5-50SE-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5002.0 lumens
Efficiency: N/A
Efficacy: 126.0 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

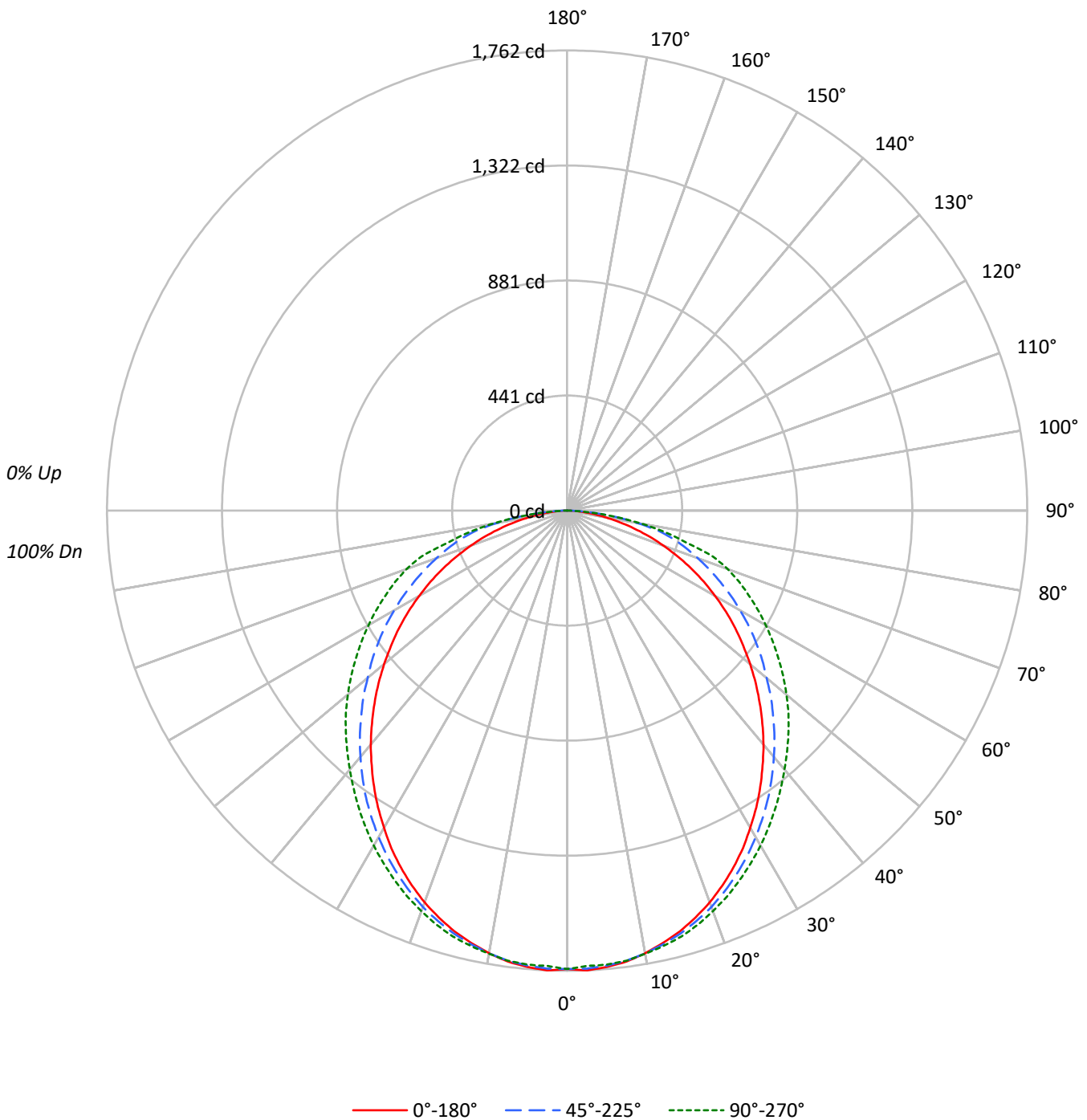
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2362	2362	2362
5°	2369	2362	2357
10°	2352	2352	2354
15°	2324	2336	2352
20°	2286	2312	2337
25°	2237	2281	2319
30°	2179	2243	2302
35°	2118	2205	2284
40°	2054	2163	2274
45°	1985	2121	2281
50°	1914	2086	2294
55°	1844	2073	2318
60°	1760	2060	2364
65°	1669	2061	2443
70°	1543	2095	2574
75°	1380	2190	2449
80°	1155	2097	2242
85°	872	1613	1533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	3.3
10°-20°	472.1	9.4
20°-30°	705.8	14.1
30°-40°	837.3	16.7
40°-50°	861.8	17.2
50°-60°	790.6	15.8
60°-70°	639.2	12.8
70°-80°	414.9	8.3
80°-90°	114.4	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°	1343.8	26.9
0°-40°	2181.1	43.6
0°-60°	3833.5	76.6
0°-90°	5002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1755	1755	1755	1755	1755	
5°	1754	1742	1749	1747	1745	166
15°	1668	1661	1677	1684	1689	470
25°	1507	1509	1536	1550	1562	694
35°	1290	1300	1343	1372	1391	806
45°	1043	1060	1115	1168	1199	805
55°	786	810	884	956	988	702
65°	524	555	647	733	767	518
75°	266	315	421	471	471	282
85°	56	96	104	101	99	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1755.4	1755.4	1755.4	1755.4	1755.4
2.5°	1762.3	1748.6	1755.4	1753.7	1745.2
5°	1753.7	1741.7	1748.6	1746.9	1745.2
7.5°	1741.7	1729.8	1738.3	1736.6	1738.3
10°	1721.2	1710.9	1721.2	1722.9	1722.9
12.5°	1695.5	1686.9	1700.6	1704.1	1707.5
15°	1668.1	1661.2	1676.7	1683.5	1688.6
17.5°	1633.8	1628.7	1647.5	1656.1	1663.0
20°	1596.2	1594.5	1615.0	1623.6	1632.1
22.5°	1553.4	1553.4	1577.3	1587.6	1599.6
25°	1507.1	1508.8	1536.2	1549.9	1561.9
27.5°	1457.4	1459.2	1491.7	1508.8	1522.5
30°	1402.6	1409.5	1443.7	1466.0	1481.4
32.5°	1347.8	1356.4	1394.1	1419.8	1436.9
35°	1289.6	1299.9	1342.7	1371.8	1390.7
37.5°	1229.7	1241.7	1287.9	1320.4	1342.7
40°	1169.7	1183.4	1231.4	1269.1	1294.7
42.5°	1106.4	1121.8	1174.9	1219.4	1246.8
45°	1043.0	1060.1	1114.9	1168.0	1198.8
47.5°	979.6	1000.2	1058.4	1116.6	1149.2
50°	914.5	935.1	996.7	1063.5	1096.1
52.5°	849.5	873.4	941.9	1010.4	1043.0
55°	786.1	810.1	883.7	955.6	988.2
57.5°	721.0	745.0	825.5	900.8	933.4
60°	654.2	681.6	765.5	842.6	878.6
62.5°	589.1	618.3	707.3	789.5	823.8
65°	524.1	554.9	647.4	733.0	767.3
67.5°	457.3	493.2	589.1	676.5	712.5
70°	392.2	431.6	532.6	620.0	654.2
72.5°	328.8	371.6	476.1	565.2	585.7
75°	265.5	315.1	421.3	471.0	471.0
77.5°	205.5	260.3	359.7	378.5	388.8
80°	149.0	208.9	270.6	292.9	289.4
82.5°	99.3	159.3	193.5	193.5	188.4
85°	56.5	95.9	104.5	101.0	99.3
87.5°	24.0	36.0	32.5	25.7	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)