

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: P261252

Luminaire Tested: **24CZ-LD5-50SE-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261252
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-LD5-50SE-S-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5183.0 lumens
Efficiency: N/A
Efficacy: 128.1 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

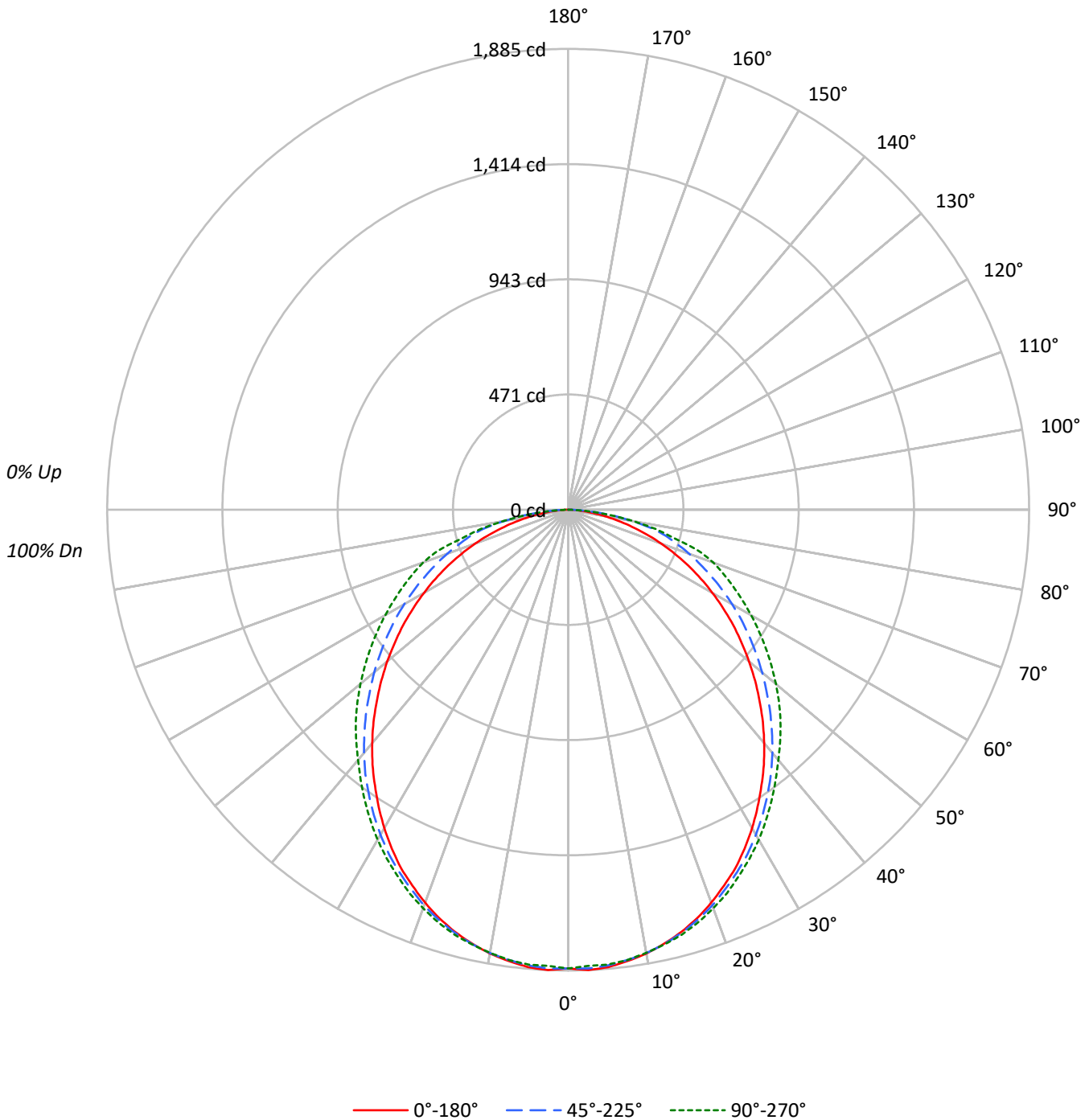
Input Watts (W): 40.455
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2525	2525	2525
5°	2537	2527	2523
10°	2519	2516	2514
15°	2491	2496	2506
20°	2450	2467	2484
25°	2402	2427	2453
30°	2336	2385	2422
35°	2263	2334	2382
40°	2190	2281	2347
45°	2107	2222	2336
50°	2022	2166	2321
55°	1934	2120	2314
60°	1833	2084	2325
65°	1724	2059	2372
70°	1588	2069	2483
75°	1408	2143	2313
80°	1176	2031	2084
85°	878	1624	1491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	3.4
10°-20°	504.5	9.7
20°-30°	751.9	14.5
30°-40°	885.1	17.1
40°-50°	899.4	17.4
50°-60°	808.7	15.6
60°-70°	638.9	12.3
70°-80°	405.3	7.8
80°-90°	111.9	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°	1433.8	27.7
0°-40°	2318.9	44.7
0°-60°	4027.0	77.7
0°-90°	5183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1876	1876	1876	1876	1876	
5°	1878	1862	1871	1868	1868	178
15°	1788	1780	1792	1797	1799	504
25°	1618	1616	1635	1645	1652	744
35°	1378	1387	1421	1437	1450	862
45°	1107	1123	1168	1202	1228	854
55°	824	845	904	962	986	736
65°	542	569	647	717	745	536
75°	271	317	412	448	445	288
85°	57	98	105	97	97	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1876.3	1876.3	1876.3	1876.3	1876.3
2.5°	1885.0	1871.2	1878.1	1874.6	1867.7
5°	1878.1	1862.5	1871.2	1867.7	1867.7
7.5°	1862.5	1850.5	1857.4	1855.6	1857.4
10°	1843.6	1831.5	1841.8	1841.8	1840.1
12.5°	1817.7	1807.4	1819.4	1819.4	1821.2
15°	1788.4	1779.8	1791.8	1797.0	1798.7
17.5°	1752.2	1743.5	1759.1	1764.2	1769.4
20°	1710.8	1707.3	1722.9	1728.0	1734.9
22.5°	1664.2	1664.2	1679.7	1686.6	1697.0
25°	1617.7	1615.9	1634.9	1645.2	1652.1
27.5°	1562.5	1564.2	1588.3	1598.7	1607.3
30°	1503.8	1507.3	1534.9	1546.9	1559.0
32.5°	1441.7	1448.6	1479.7	1493.5	1505.6
35°	1377.9	1386.6	1421.1	1436.6	1450.4
37.5°	1314.1	1326.2	1362.4	1377.9	1393.5
40°	1246.9	1257.2	1298.6	1317.6	1336.5
42.5°	1177.9	1191.7	1233.1	1260.7	1283.1
45°	1107.2	1122.7	1167.5	1202.0	1227.9
47.5°	1036.5	1057.2	1100.3	1146.8	1169.3
50°	965.8	986.5	1034.7	1086.5	1108.9
52.5°	893.3	914.0	969.2	1022.7	1046.8
55°	824.3	845.0	903.7	962.3	986.5
57.5°	751.9	774.3	839.9	900.2	924.4
60°	681.2	703.6	774.3	838.1	864.0
62.5°	612.2	636.4	710.5	777.8	803.7
65°	541.5	569.1	646.7	717.4	745.0
67.5°	472.5	503.6	584.6	658.8	688.1
70°	403.6	439.8	526.0	601.9	631.2
72.5°	336.3	376.0	467.4	543.2	558.8
75°	270.8	317.3	412.2	448.4	444.9
77.5°	208.7	260.4	350.1	357.0	367.3
80°	151.8	208.7	262.1	275.9	269.0
82.5°	100.0	156.9	188.0	181.1	179.4
85°	56.9	98.3	105.2	96.6	96.6
87.5°	24.1	39.7	34.5	25.9	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)