

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: P260833

Luminaire Tested: **24CZ-LD5-50SE-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260833
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-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5150.0 lumens
Efficiency: N/A
Efficacy: 126.7 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

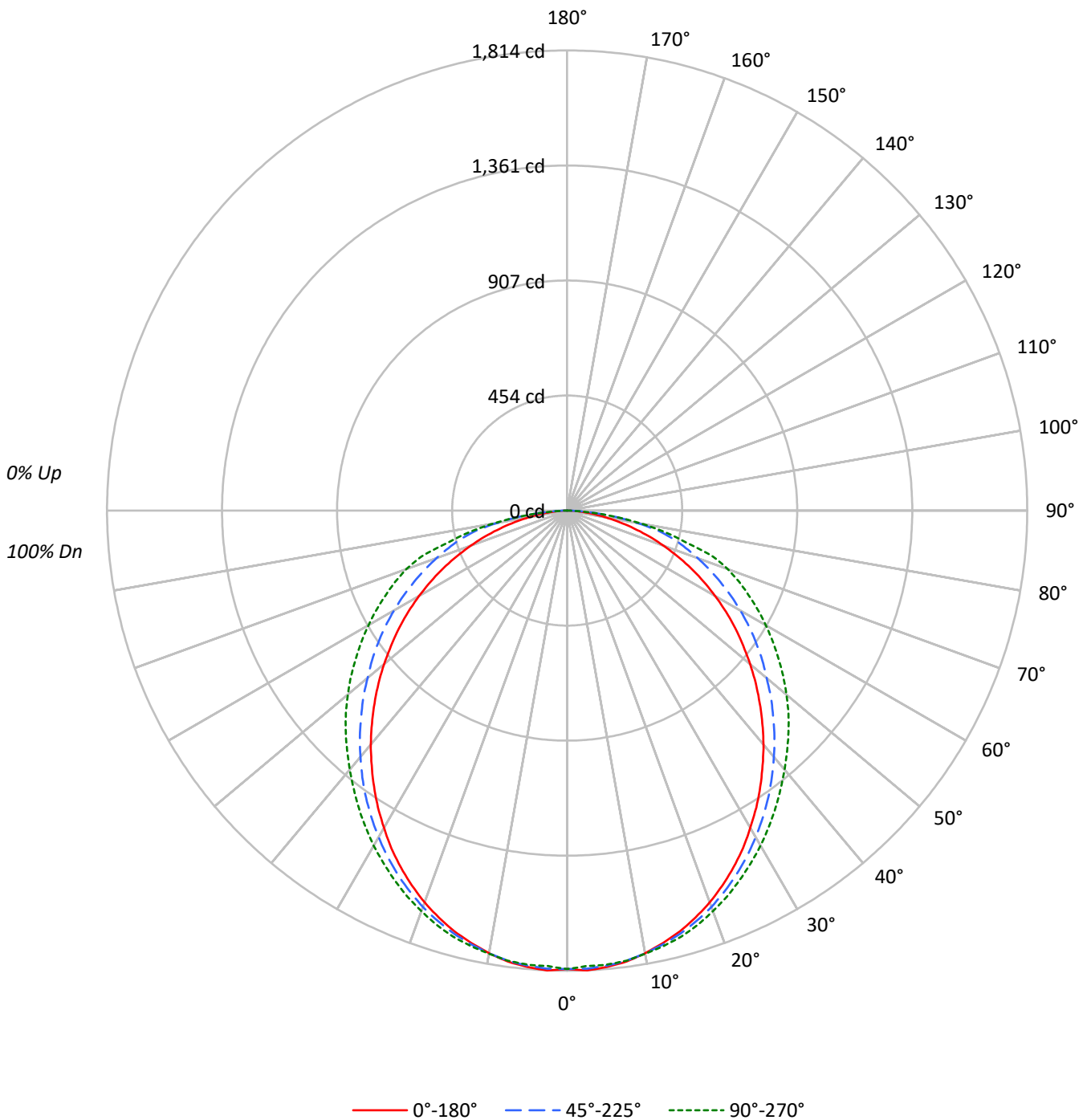
Input Watts (W): 40.641
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2432	2432	2432
5°	2439	2432	2427
10°	2421	2421	2424
15°	2392	2405	2422
20°	2353	2381	2406
25°	2304	2348	2387
30°	2244	2309	2370
35°	2181	2271	2352
40°	2115	2227	2341
45°	2043	2184	2349
50°	1971	2148	2362
55°	1899	2134	2387
60°	1813	2121	2434
65°	1718	2122	2515
70°	1589	2157	2650
75°	1421	2255	2521
80°	1189	2159	2309
85°	898	1661	1579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	3.3
10°-20°	486.1	9.4
20°-30°	726.7	14.1
30°-40°	862.1	16.7
40°-50°	887.3	17.2
50°-60°	814.0	15.8
60°-70°	658.1	12.8
70°-80°	427.1	8.3
80°-90°	117.8	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°	1383.6	26.9
0°-40°	2245.7	43.6
0°-60°	3946.9	76.6
0°-90°	5150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1807	1807	1807	1807	1807	
5°	1806	1793	1800	1799	1797	171
15°	1718	1710	1726	1733	1739	484
25°	1552	1554	1582	1596	1608	714
35°	1328	1338	1382	1412	1432	830
45°	1074	1092	1148	1203	1234	829
55°	809	834	910	984	1017	723
65°	540	571	666	755	790	533
75°	273	324	434	485	485	291
85°	58	99	108	104	102	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1807.4	1807.4	1807.4	1807.4	1807.4
2.5°	1814.4	1800.3	1807.4	1805.6	1796.8
5°	1805.6	1793.3	1800.3	1798.6	1796.8
7.5°	1793.3	1780.9	1789.7	1788.0	1789.7
10°	1772.1	1761.5	1772.1	1773.9	1773.9
12.5°	1745.7	1736.9	1751.0	1754.5	1758.0
15°	1717.5	1710.4	1726.3	1733.3	1738.6
17.5°	1682.2	1676.9	1696.3	1705.1	1712.2
20°	1643.4	1641.6	1662.8	1671.6	1680.4
22.5°	1599.3	1599.3	1624.0	1634.6	1646.9
25°	1551.7	1553.5	1581.7	1595.8	1608.1
27.5°	1500.6	1502.3	1535.8	1553.5	1567.6
30°	1444.1	1451.2	1486.5	1509.4	1525.3
32.5°	1387.7	1396.5	1435.3	1461.8	1479.4
35°	1327.8	1338.3	1382.4	1412.4	1431.8
37.5°	1266.0	1278.4	1326.0	1359.5	1382.4
40°	1204.3	1218.4	1267.8	1306.6	1333.1
42.5°	1139.1	1155.0	1209.6	1255.5	1283.7
45°	1073.8	1091.5	1147.9	1202.6	1234.3
47.5°	1008.6	1029.8	1089.7	1149.7	1183.2
50°	941.6	962.8	1026.2	1095.0	1128.5
52.5°	874.6	899.3	969.8	1040.3	1073.8
55°	809.4	834.0	909.9	983.9	1017.4
57.5°	742.3	767.0	849.9	927.5	961.0
60°	673.6	701.8	788.2	867.5	904.6
62.5°	606.6	636.6	728.2	812.9	848.1
65°	539.6	571.3	666.5	754.7	790.0
67.5°	470.8	507.8	606.6	696.5	733.5
70°	403.8	444.4	548.4	638.3	673.6
72.5°	338.6	382.6	490.2	581.9	603.0
75°	273.3	324.4	433.8	484.9	484.9
77.5°	211.6	268.0	370.3	389.7	400.3
80°	153.4	215.1	278.6	301.5	298.0
82.5°	102.3	164.0	199.3	199.3	194.0
85°	58.2	98.7	107.6	104.0	102.3
87.5°	24.7	37.0	33.5	26.4	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)