

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: P260573

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260573
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-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5026.0 lumens
Efficiency: N/A
Efficacy: 140.7 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

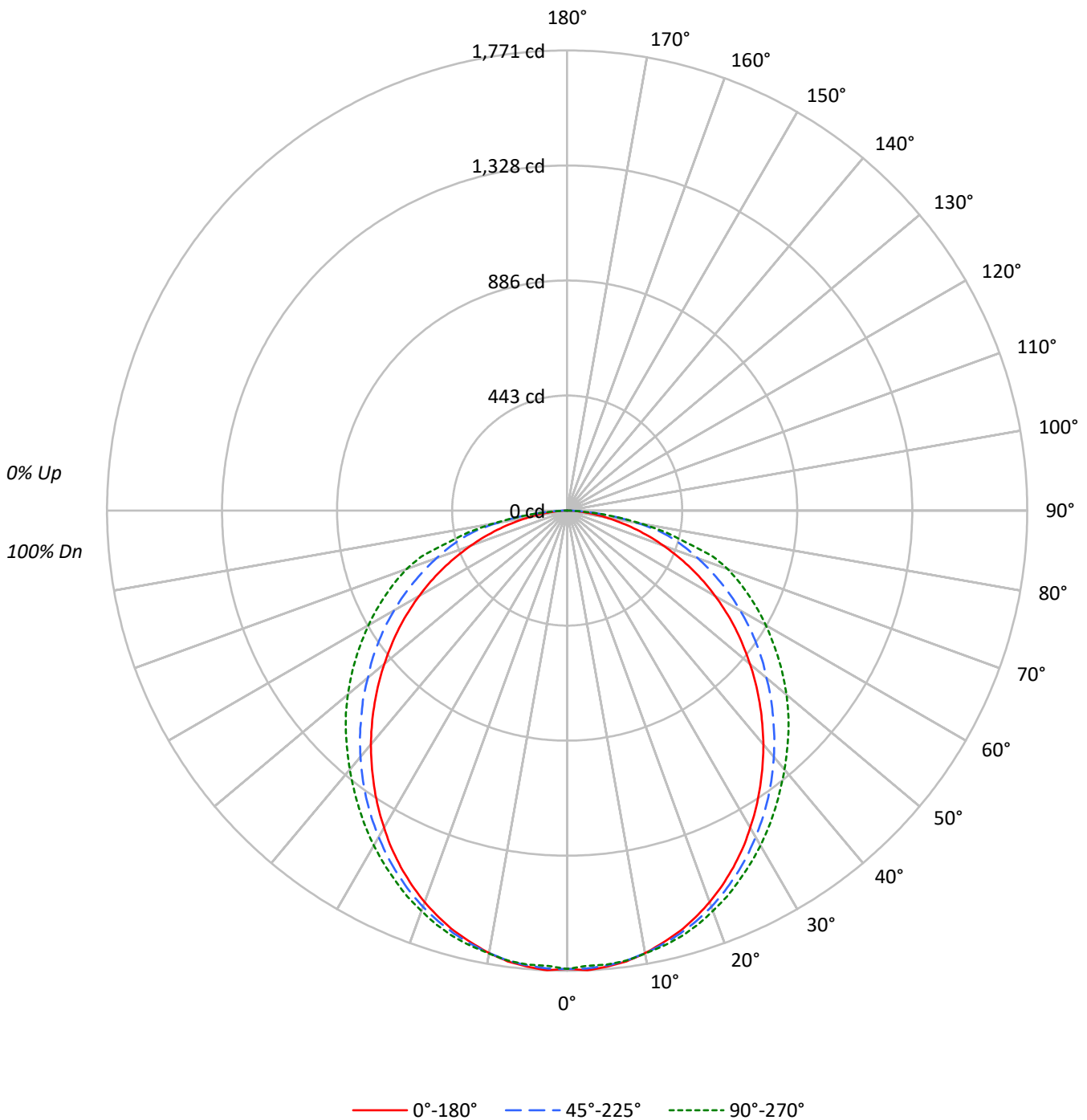
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2373	2373	2373
5°	2380	2373	2368
10°	2363	2363	2365
15°	2335	2347	2364
20°	2296	2324	2348
25°	2248	2292	2330
30°	2190	2254	2313
35°	2128	2216	2295
40°	2064	2173	2285
45°	1994	2132	2292
50°	1923	2096	2305
55°	1853	2083	2329
60°	1769	2070	2376
65°	1677	2071	2454
70°	1550	2105	2586
75°	1386	2201	2460
80°	1160	2107	2253
85°	877	1621	1541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.7	3.3
10°-20°	474.4	9.4
20°-30°	709.2	14.1
30°-40°	841.3	16.7
40°-50°	865.9	17.2
50°-60°	794.4	15.8
60°-70°	642.3	12.8
70°-80°	416.8	8.3
80°-90°	114.9	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°	1350.3	26.9
0°-40°	2191.6	43.6
0°-60°	3851.9	76.6
0°-90°	5026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5026.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1762	1750	1757	1755	1754	167
15°	1676	1669	1685	1692	1697	472
25°	1514	1516	1544	1557	1569	697
35°	1296	1306	1349	1378	1397	810
45°	1048	1065	1120	1174	1205	809
55°	790	814	888	960	993	706
65°	527	558	650	736	771	520
75°	267	317	423	473	473	283
85°	57	96	105	102	100	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1763.9	1763.9	1763.9	1763.9	1763.9
2.5°	1770.7	1757.0	1763.9	1762.1	1753.5
5°	1762.1	1750.1	1757.0	1755.3	1753.5
7.5°	1750.1	1738.1	1746.7	1744.9	1746.7
10°	1729.4	1719.1	1729.4	1731.2	1731.2
12.5°	1703.6	1695.0	1708.8	1712.2	1715.7
15°	1676.1	1669.2	1684.7	1691.6	1696.8
17.5°	1641.7	1636.5	1655.5	1664.1	1670.9
20°	1603.8	1602.1	1622.8	1631.4	1640.0
22.5°	1560.8	1560.8	1584.9	1595.2	1607.3
25°	1514.3	1516.1	1543.6	1557.4	1569.4
27.5°	1464.4	1466.2	1498.9	1516.1	1529.8
30°	1409.4	1416.3	1450.7	1473.0	1488.5
32.5°	1354.3	1362.9	1400.8	1426.6	1443.8
35°	1295.8	1306.1	1349.1	1378.4	1397.3
37.5°	1235.6	1247.6	1294.1	1326.8	1349.1
40°	1175.3	1189.1	1237.3	1275.1	1301.0
42.5°	1111.7	1127.2	1180.5	1225.2	1252.8
45°	1048.0	1065.2	1120.3	1173.6	1204.6
47.5°	984.3	1005.0	1063.5	1122.0	1154.7
50°	918.9	939.6	1001.5	1068.6	1101.3
52.5°	853.5	877.6	946.5	1015.3	1048.0
55°	789.9	814.0	888.0	960.2	992.9
57.5°	724.5	748.6	829.4	905.2	937.9
60°	657.4	684.9	769.2	846.7	882.8
62.5°	592.0	621.2	710.7	793.3	827.7
65°	526.6	557.6	650.5	736.5	770.9
67.5°	459.5	495.6	592.0	679.7	715.9
70°	394.1	433.7	535.2	622.9	657.4
72.5°	330.4	373.4	478.4	567.9	588.5
75°	266.7	316.6	423.3	473.2	473.2
77.5°	206.5	261.6	361.4	380.3	390.6
80°	149.7	209.9	271.9	294.3	290.8
82.5°	99.8	160.0	194.5	194.5	189.3
85°	56.8	96.4	105.0	101.5	99.8
87.5°	24.1	36.1	32.7	25.8	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)