

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: P260893

Luminaire Tested: **24CZ-LD5-60-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260893
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-LD5-60-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5161.0 lumens
Efficiency: N/A
Efficacy: 116.3 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

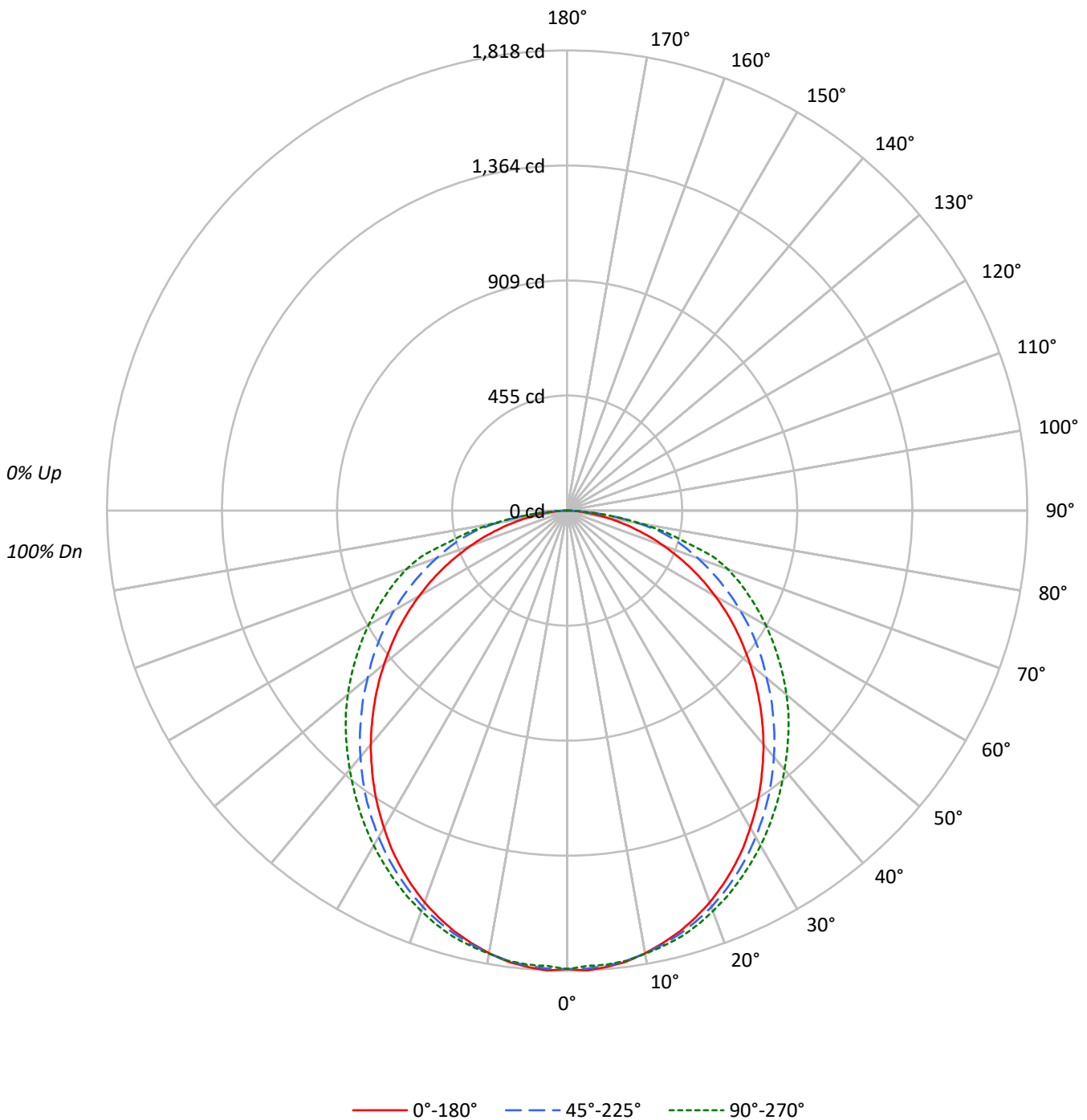
Input Watts (W): 44.361
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2437	2437	2437
5°	2444	2437	2432
10°	2426	2426	2429
15°	2397	2410	2427
20°	2358	2386	2411
25°	2309	2353	2393
30°	2248	2314	2375
35°	2186	2276	2357
40°	2120	2232	2346
45°	2048	2189	2354
50°	1975	2153	2367
55°	1903	2139	2392
60°	1816	2126	2439
65°	1721	2127	2520
70°	1592	2162	2655
75°	1424	2260	2526
80°	1191	2163	2314
85°	900	1664	1582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	3.3
10°-20°	487.1	9.4
20°-30°	728.2	14.1
30°-40°	863.9	16.7
40°-50°	889.2	17.2
50°-60°	815.7	15.8
60°-70°	659.6	12.8
70°-80°	428.0	8.3
80°-90°	118.0	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°	1386.5	26.9
0°-40°	2250.4	43.6
0°-60°	3955.4	76.6
0°-90°	5161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1811	1811	1811	1811	1811	
5°	1810	1797	1804	1802	1801	172
15°	1721	1714	1730	1737	1742	485
25°	1555	1557	1585	1599	1612	716
35°	1331	1341	1385	1415	1435	832
45°	1076	1094	1150	1205	1237	830
55°	811	836	912	986	1020	725
65°	541	572	668	756	792	534
75°	274	325	435	486	486	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°	1811.2	1811.2	1811.2	1811.2	1811.2
2.5°	1818.3	1804.2	1811.2	1809.5	1800.6
5°	1809.5	1797.1	1804.2	1802.4	1800.6
7.5°	1797.1	1784.7	1793.6	1791.8	1793.6
10°	1775.9	1765.3	1775.9	1777.7	1777.7
12.5°	1749.4	1740.6	1754.7	1758.2	1761.8
15°	1721.1	1714.1	1730.0	1737.0	1742.3
17.5°	1685.8	1680.5	1699.9	1708.8	1715.8
20°	1646.9	1645.1	1666.3	1675.2	1684.0
22.5°	1602.7	1602.7	1627.5	1638.1	1650.4
25°	1555.0	1556.8	1585.1	1599.2	1611.6
27.5°	1503.8	1505.5	1539.1	1556.8	1570.9
30°	1447.2	1454.3	1489.6	1512.6	1528.5
32.5°	1390.7	1399.5	1438.4	1464.9	1482.6
35°	1330.6	1341.2	1385.4	1415.4	1434.9
37.5°	1268.8	1281.1	1328.8	1362.4	1385.4
40°	1206.9	1221.0	1270.5	1309.4	1335.9
42.5°	1141.5	1157.4	1212.2	1258.2	1286.4
45°	1076.1	1093.8	1150.4	1205.1	1236.9
47.5°	1010.8	1032.0	1092.0	1152.1	1185.7
50°	943.6	964.8	1028.4	1097.3	1130.9
52.5°	876.5	901.2	971.9	1042.6	1076.1
55°	811.1	835.8	911.8	986.0	1019.6
57.5°	743.9	768.7	851.7	929.5	963.1
60°	675.0	703.3	789.9	869.4	906.5
62.5°	607.9	637.9	729.8	814.6	850.0
65°	540.7	572.5	668.0	756.3	791.6
67.5°	471.8	508.9	607.9	698.0	735.1
70°	404.7	445.3	549.6	639.7	675.0
72.5°	339.3	383.5	491.2	583.1	604.3
75°	273.9	325.1	434.7	485.9	485.9
77.5°	212.0	268.6	371.1	390.5	401.1
80°	153.7	215.6	279.2	302.2	298.6
82.5°	102.5	164.3	199.7	199.7	194.4
85°	58.3	99.0	107.8	104.3	102.5
87.5°	24.7	37.1	33.6	26.5	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)