

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: P230067

Luminaire Tested: **24CZ-LD5-75-S-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230067
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-LD5-75-S-UNV-L950-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7334.0 lumens
Efficiency: N/A
Efficacy: 106.2 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

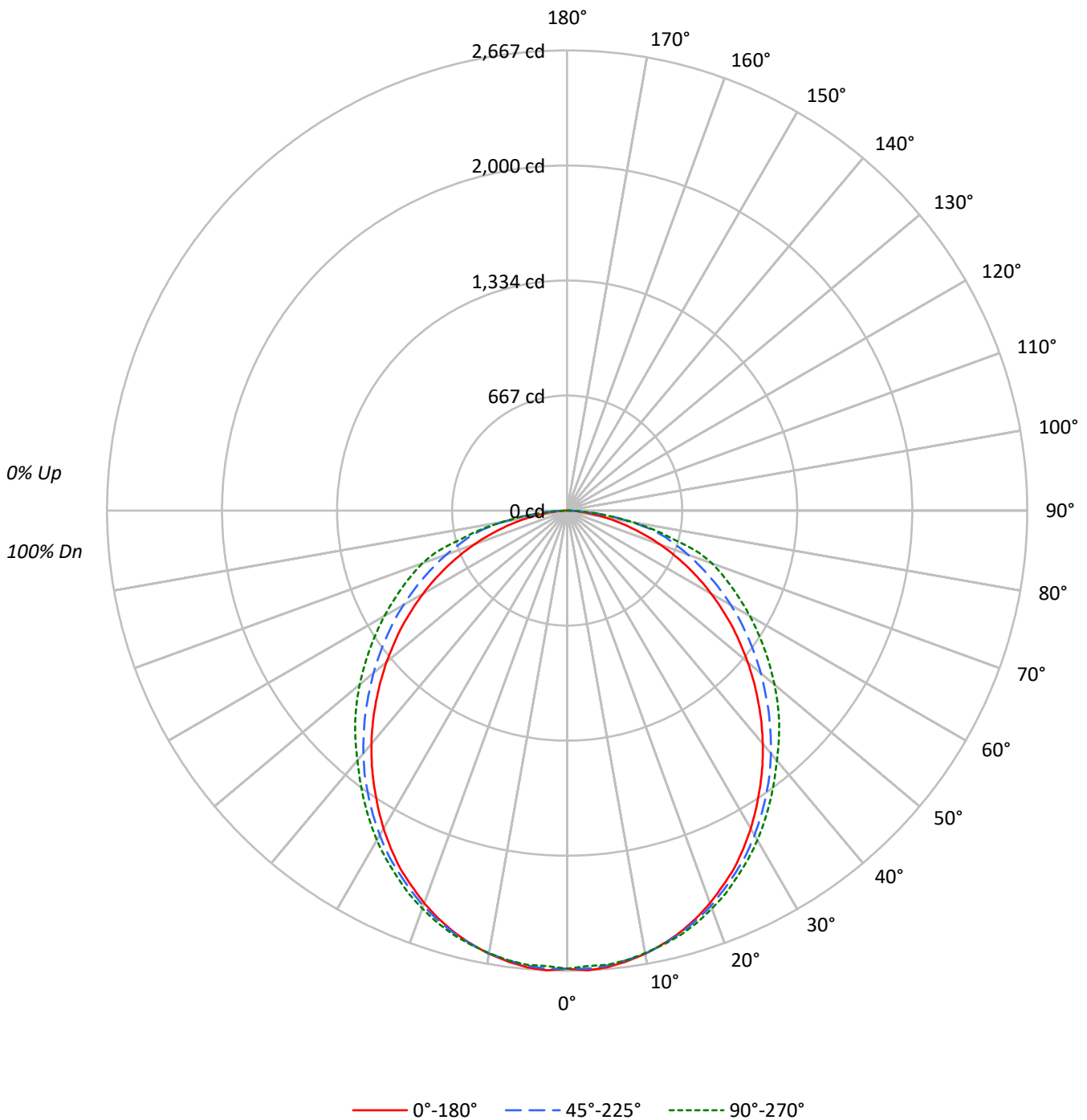
Input Watts (W): 69.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3572	3572	3572
5°	3589	3576	3569
10°	3564	3561	3557
15°	3525	3532	3545
20°	3466	3491	3515
25°	3398	3434	3471
30°	3306	3374	3427
35°	3203	3303	3371
40°	3099	3227	3322
45°	2981	3144	3306
50°	2861	3065	3284
55°	2736	3000	3274
60°	2594	2949	3290
65°	2440	2913	3356
70°	2246	2928	3513
75°	1992	3032	3273
80°	1664	2874	2950
85°	1243	2299	2110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	3.4
10°-20°	713.9	9.7
20°-30°	1063.9	14.5
30°-40°	1252.4	17.1
40°-50°	1272.7	17.4
50°-60°	1144.3	15.6
60°-70°	904.0	12.3
70°-80°	573.5	7.8
80°-90°	158.3	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°	2028.9	27.7
0°-40°	3281.3	44.7
0°-60°	5698.2	77.7
0°-90°	7334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2655	2655	2655	2655	2655	
5°	2658	2636	2648	2643	2643	252
15°	2531	2518	2536	2543	2545	713
25°	2289	2287	2313	2328	2338	1052
35°	1950	1962	2011	2033	2052	1220
45°	1567	1589	1652	1701	1738	1209
55°	1166	1196	1279	1362	1396	1042
65°	766	805	915	1015	1054	759
75°	383	449	583	634	630	408
85°	80	139	149	137	137	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2655.0	2655.0	2655.0	2655.0	2655.0
2.5°	2667.2	2647.7	2657.5	2652.6	2642.8
5°	2657.5	2635.5	2647.7	2642.8	2642.8
7.5°	2635.5	2618.4	2628.2	2625.8	2628.2
10°	2608.7	2591.6	2606.2	2606.2	2603.8
12.5°	2572.1	2557.4	2574.5	2574.5	2577.0
15°	2530.6	2518.4	2535.5	2542.8	2545.2
17.5°	2479.3	2467.1	2489.1	2496.4	2503.7
20°	2420.8	2415.9	2437.9	2445.2	2454.9
22.5°	2354.9	2354.9	2376.8	2386.6	2401.3
25°	2289.0	2286.6	2313.4	2328.0	2337.8
27.5°	2210.9	2213.3	2247.5	2262.2	2274.4
30°	2127.9	2132.8	2171.9	2188.9	2206.0
32.5°	2040.1	2049.8	2093.8	2113.3	2130.4
35°	1949.8	1962.0	2010.8	2032.8	2052.3
37.5°	1859.5	1876.6	1927.8	1949.8	1971.8
40°	1764.3	1779.0	1837.5	1864.4	1891.2
42.5°	1666.7	1686.2	1744.8	1783.9	1815.6
45°	1566.7	1588.6	1652.1	1700.9	1737.5
47.5°	1466.6	1495.9	1556.9	1622.8	1654.5
50°	1366.6	1395.8	1464.2	1537.4	1569.1
52.5°	1264.1	1293.4	1371.4	1447.1	1481.3
55°	1166.5	1195.7	1278.7	1361.7	1395.8
57.5°	1064.0	1095.7	1188.4	1273.8	1308.0
60°	963.9	995.6	1095.7	1186.0	1222.6
62.5°	866.3	900.5	1005.4	1100.6	1137.2
65°	766.3	805.3	915.1	1015.2	1054.2
67.5°	668.6	712.6	827.3	932.2	973.7
70°	571.0	622.3	744.3	851.7	893.1
72.5°	475.9	532.0	661.3	768.7	790.7
75°	383.1	449.0	583.2	634.5	629.6
77.5°	295.3	368.5	495.4	505.1	519.8
80°	214.7	295.3	370.9	390.4	380.7
82.5°	141.5	222.1	266.0	256.2	253.8
85°	80.5	139.1	148.9	136.7	136.7
87.5°	34.2	56.1	48.8	36.6	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)