

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: P230064

Luminaire Tested: **24CZ-LD5-75-S-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230064
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-L930-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6329.0 lumens
Efficiency: N/A
Efficacy: 91.6 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

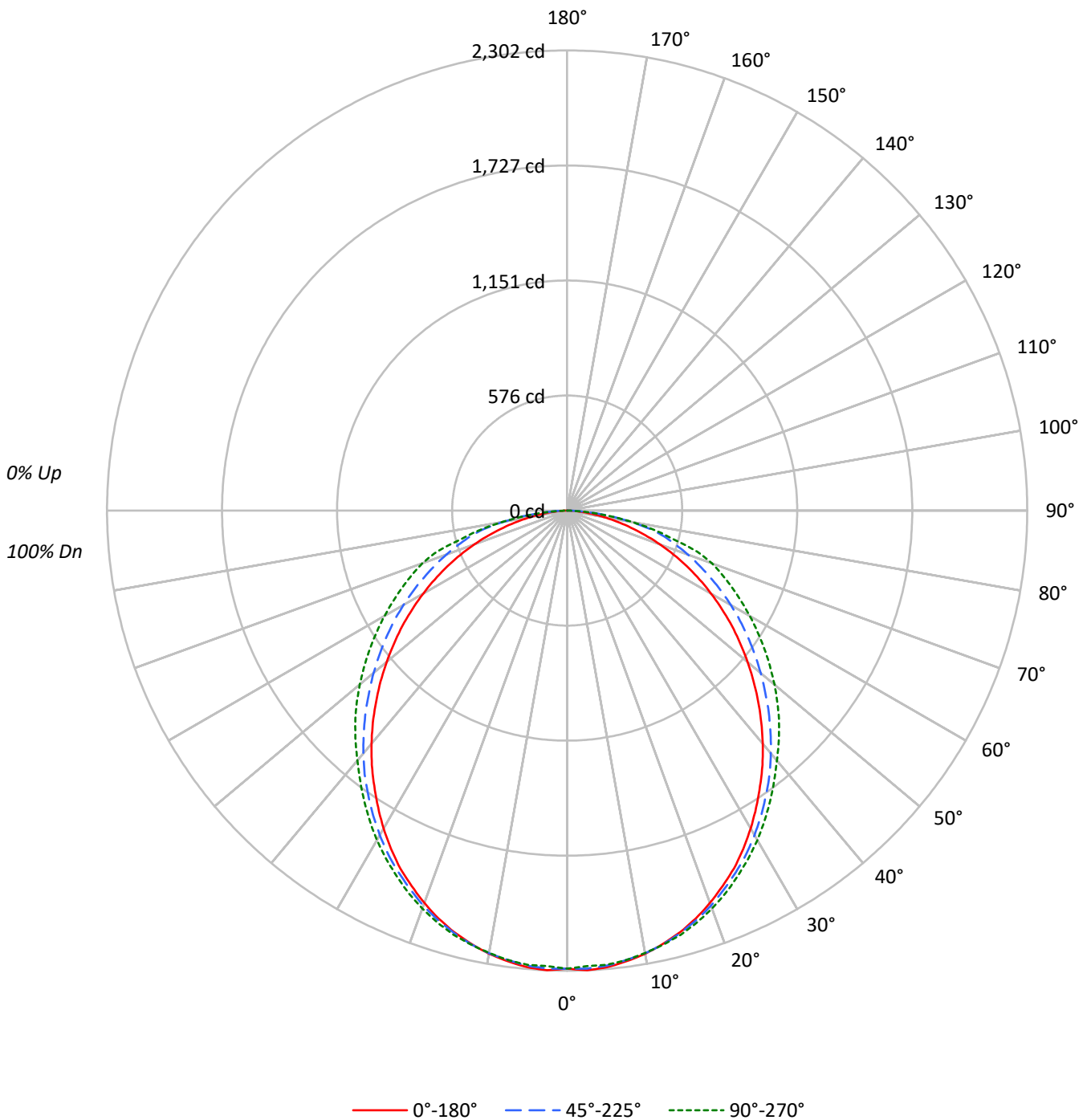
Input Watts (W): 69.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3083	3083	3083
5°	3097	3086	3080
10°	3076	3073	3070
15°	3042	3048	3059
20°	2991	3012	3033
25°	2932	2964	2995
30°	2853	2912	2958
35°	2764	2850	2909
40°	2674	2785	2867
45°	2573	2713	2853
50°	2469	2645	2834
55°	2361	2589	2826
60°	2238	2544	2839
65°	2105	2514	2896
70°	1939	2527	3032
75°	1719	2616	2824
80°	1436	2480	2545
85°	1073	1984	1820



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	3.4
10°-20°	616.1	9.7
20°-30°	918.1	14.5
30°-40°	1080.8	17.1
40°-50°	1098.3	17.4
50°-60°	987.5	15.6
60°-70°	780.1	12.3
70°-80°	494.9	7.8
80°-90°	136.6	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°	1750.8	27.7
0°-40°	2831.6	44.7
0°-60°	4917.4	77.7
0°-90°	6329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6329.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2291	2291	2291	2291	2291	
5°	2293	2274	2285	2281	2281	217
15°	2184	2173	2188	2194	2196	615
25°	1975	1973	1996	2009	2017	908
35°	1683	1693	1735	1754	1771	1053
45°	1352	1371	1426	1468	1499	1043
55°	1007	1032	1104	1175	1205	899
65°	661	695	790	876	910	655
75°	331	388	503	548	543	352
85°	70	120	128	118	118	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2291.2	2291.2	2291.2	2291.2	2291.2
2.5°	2301.7	2284.9	2293.3	2289.1	2280.7
5°	2293.3	2274.4	2284.9	2280.7	2280.7
7.5°	2274.4	2259.6	2268.0	2265.9	2268.0
10°	2251.2	2236.5	2249.1	2249.1	2247.0
12.5°	2219.6	2207.0	2221.7	2221.7	2223.8
15°	2183.8	2173.3	2188.0	2194.3	2196.4
17.5°	2139.6	2129.1	2148.0	2154.3	2160.6
20°	2089.0	2084.8	2103.8	2110.1	2118.5
22.5°	2032.2	2032.2	2051.1	2059.6	2072.2
25°	1975.3	1973.2	1996.4	2009.0	2017.4
27.5°	1907.9	1910.0	1939.5	1952.2	1962.7
30°	1836.3	1840.6	1874.2	1889.0	1903.7
32.5°	1760.5	1769.0	1806.9	1823.7	1838.4
35°	1682.6	1693.1	1735.3	1754.2	1771.1
37.5°	1604.7	1619.4	1663.7	1682.6	1701.6
40°	1522.6	1535.2	1585.7	1608.9	1632.1
42.5°	1438.3	1455.2	1505.7	1539.4	1566.8
45°	1352.0	1370.9	1425.7	1467.8	1499.4
47.5°	1265.6	1290.9	1343.6	1400.4	1427.8
50°	1179.3	1204.6	1263.5	1326.7	1354.1
52.5°	1090.9	1116.1	1183.5	1248.8	1278.3
55°	1006.6	1031.9	1103.5	1175.1	1204.6
57.5°	918.2	945.5	1025.6	1099.3	1128.8
60°	831.8	859.2	945.5	1023.5	1055.1
62.5°	747.6	777.1	867.6	949.8	981.3
65°	661.3	694.9	789.7	876.1	909.7
67.5°	577.0	614.9	713.9	804.5	840.3
70°	492.8	537.0	642.3	735.0	770.8
72.5°	410.6	459.1	570.7	663.4	682.3
75°	330.6	387.5	503.3	547.5	543.3
77.5°	254.8	318.0	427.5	435.9	448.6
80°	185.3	254.8	320.1	336.9	328.5
82.5°	122.1	191.6	229.5	221.1	219.0
85°	69.5	120.0	128.5	117.9	117.9
87.5°	29.5	48.4	42.1	31.6	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)