

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: P230065

Luminaire Tested: **24CZ-LD5-75-S-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230065
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-L935-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6579.0 lumens
Efficiency: N/A
Efficacy: 95.3 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

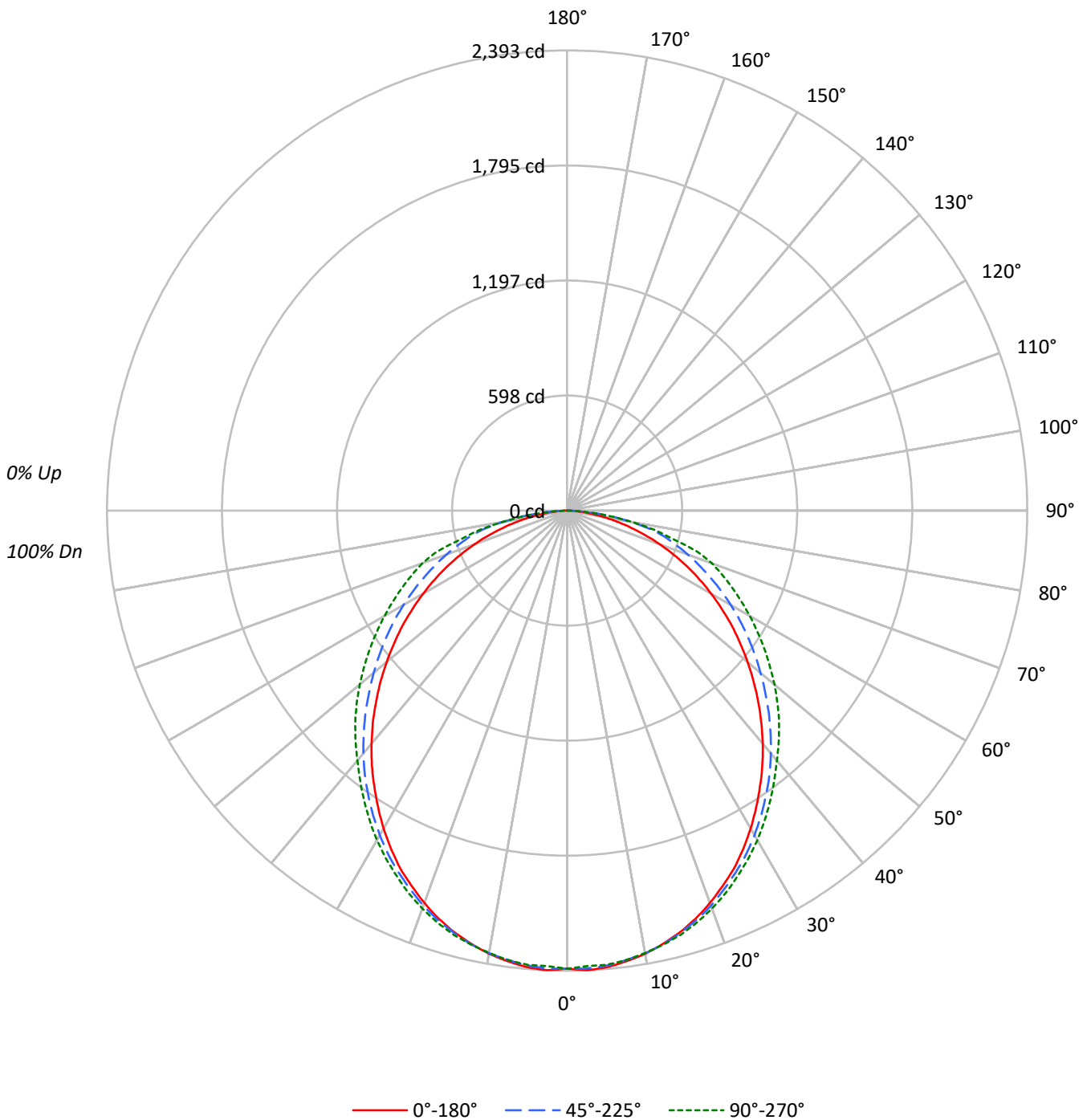
Input Watts (W): 69.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3205	3205	3205
5°	3220	3208	3202
10°	3197	3194	3191
15°	3162	3168	3180
20°	3109	3131	3153
25°	3048	3081	3113
30°	2966	3027	3074
35°	2873	2963	3024
40°	2780	2895	2980
45°	2674	2820	2966
50°	2566	2749	2946
55°	2455	2691	2937
60°	2327	2645	2951
65°	2188	2613	3011
70°	2015	2627	3152
75°	1787	2720	2936
80°	1492	2578	2646
85°	1115	2061	1893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.2	3.4
10°-20°	640.4	9.7
20°-30°	954.4	14.5
30°-40°	1123.5	17.1
40°-50°	1141.7	17.4
50°-60°	1026.5	15.6
60°-70°	810.9	12.3
70°-80°	514.5	7.8
80°-90°	142.0	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°	1820.0	27.7
0°-40°	2943.5	44.7
0°-60°	5111.6	77.7
0°-90°	6579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2382	2382	2382	2382	2382	
5°	2384	2364	2375	2371	2371	226
15°	2270	2259	2274	2281	2283	639
25°	2053	2051	2075	2088	2097	944
35°	1749	1760	1804	1824	1841	1094
45°	1405	1425	1482	1526	1559	1084
55°	1046	1073	1147	1222	1252	934
65°	687	722	821	911	946	681
75°	344	403	523	569	565	366
85°	72	125	134	123	123	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2381.7	2381.7	2381.7	2381.7	2381.7
2.5°	2392.7	2375.2	2383.9	2379.5	2370.8
5°	2383.9	2364.2	2375.2	2370.8	2370.8
7.5°	2364.2	2348.9	2357.6	2355.5	2357.6
10°	2340.1	2324.8	2337.9	2337.9	2335.7
12.5°	2307.3	2294.2	2309.5	2309.5	2311.7
15°	2270.1	2259.1	2274.5	2281.0	2283.2
17.5°	2224.1	2213.2	2232.9	2239.4	2246.0
20°	2171.6	2167.2	2186.9	2193.5	2202.2
22.5°	2112.5	2112.5	2132.2	2140.9	2154.1
25°	2053.4	2051.2	2075.2	2088.4	2097.1
27.5°	1983.3	1985.5	2016.1	2029.3	2040.2
30°	1908.9	1913.3	1948.3	1963.6	1978.9
32.5°	1830.1	1838.8	1878.2	1895.7	1911.1
35°	1749.1	1760.0	1803.8	1823.5	1841.0
37.5°	1668.1	1683.4	1729.4	1749.1	1768.8
40°	1582.7	1595.8	1648.4	1672.5	1696.5
42.5°	1495.1	1512.7	1565.2	1600.2	1628.7
45°	1405.4	1425.1	1482.0	1525.8	1558.6
47.5°	1315.6	1341.9	1396.6	1455.7	1484.2
50°	1225.9	1252.2	1313.4	1379.1	1407.6
52.5°	1133.9	1160.2	1230.3	1298.1	1328.8
55°	1046.4	1072.6	1147.1	1221.5	1252.2
57.5°	954.4	982.9	1066.1	1142.7	1173.3
60°	864.7	893.1	982.9	1063.9	1096.7
62.5°	777.1	807.8	901.9	987.3	1020.1
65°	687.4	722.4	820.9	910.7	945.7
67.5°	599.8	639.2	742.1	836.2	873.4
70°	512.2	558.2	667.7	764.0	801.2
72.5°	426.9	477.2	593.2	689.6	709.3
75°	343.7	402.8	523.2	569.2	564.8
77.5°	264.9	330.6	444.4	453.1	466.3
80°	192.6	264.9	332.7	350.3	341.5
82.5°	127.0	199.2	238.6	229.9	227.7
85°	72.2	124.8	133.5	122.6	122.6
87.5°	30.6	50.3	43.8	32.8	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)