

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: P#

Luminaire Tested: **24CZ-LD5-75-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7640.8 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

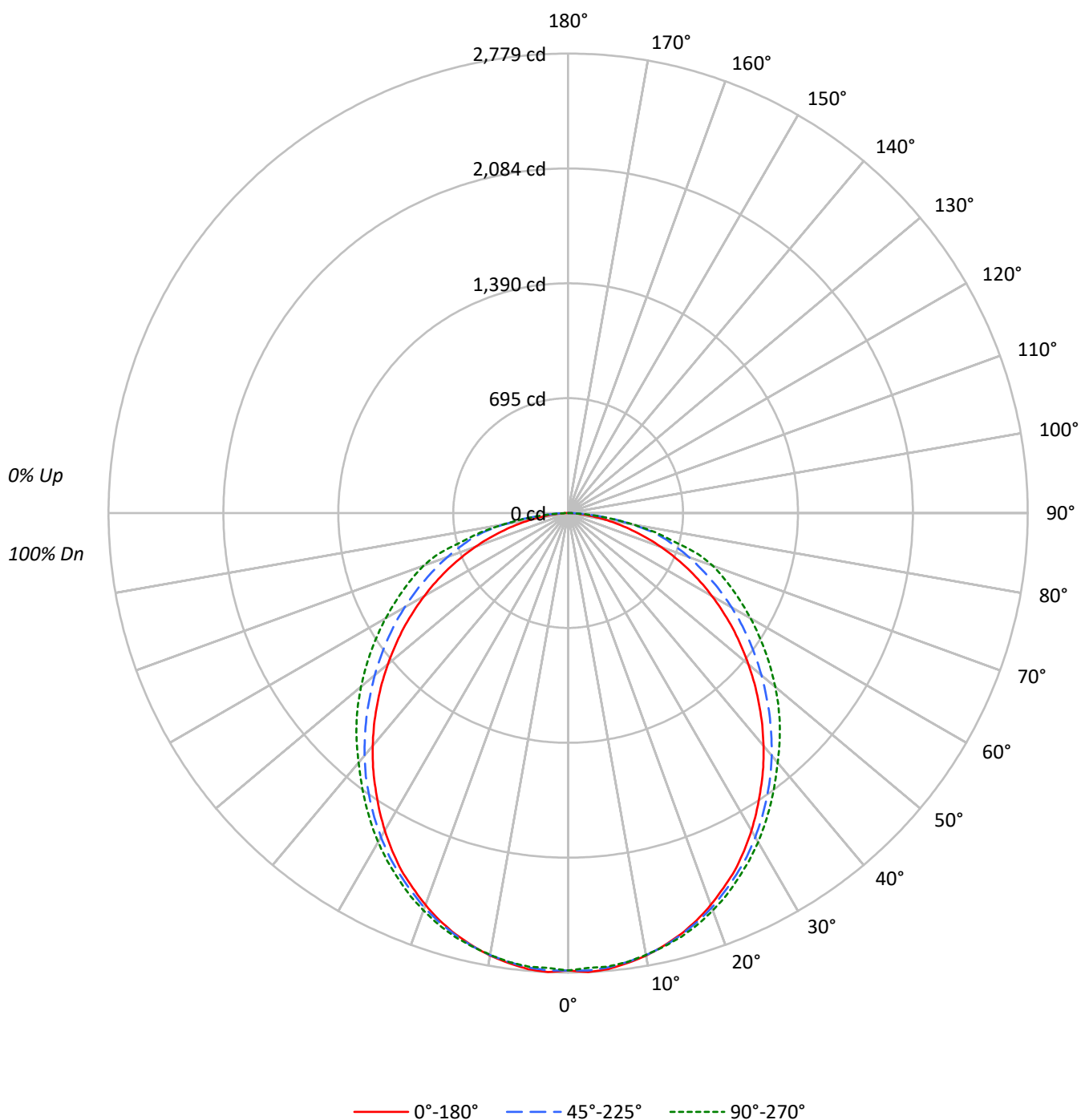
Input Watts (W): 69.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
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°	3722	3722	3722
5°	3731	3709	3703
10°	3697	3675	3674
15°	3648	3628	3645
20°	3579	3568	3597
25°	3500	3492	3533
30°	3395	3411	3471
35°	3279	3318	3393
40°	3162	3219	3321
45°	3030	3110	3280
50°	2894	3003	3230
55°	2753	2905	3184
60°	2590	2813	3154
65°	2412	2725	3158
70°	2190	2662	3218
75°	1898	2637	2874
80°	1518	2302	2394
85°	1007	1491	1399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.5	3.4
10°-20°	743.8	9.7
20°-30°	1108.4	14.5
30°-40°	1304.8	17.1
40°-50°	1326.0	17.4
50°-60°	1192.1	15.6
60°-70°	941.8	12.3
70°-80°	597.5	7.8
80°-90°	164.9	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°	2113.7	27.7
0°-40°	3418.5	44.7
0°-60°	5936.6	77.7
0°-90°	7640.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7640.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2766	2766	2766	2766	2766	
5°	2769	2746	2758	2753	2753	263
15°	2636	2624	2642	2649	2652	743
25°	2385	2382	2410	2425	2436	1096
35°	2031	2044	2095	2118	2138	1271
45°	1632	1655	1721	1772	1810	1259
55°	1215	1246	1332	1419	1454	1085
65°	798	839	953	1058	1098	791
75°	399	468	608	661	656	425
85°	84	145	155	142	142	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2766.1	2766.1	2766.1	2766.1	2766.1
2.5°	2778.8	2758.5	2768.7	2763.6	2753.4
5°	2768.7	2745.8	2758.5	2753.4	2753.4
7.5°	2745.8	2728.0	2738.2	2735.6	2738.2
10°	2717.8	2700.0	2715.3	2715.3	2712.7
12.5°	2679.7	2664.4	2682.2	2682.2	2684.8
15°	2636.5	2623.7	2641.5	2649.2	2651.7
17.5°	2583.1	2570.4	2593.2	2600.9	2608.5
20°	2522.0	2517.0	2539.8	2547.5	2557.6
22.5°	2453.4	2453.4	2476.3	2486.5	2501.7
25°	2384.8	2382.2	2410.2	2425.4	2435.6
27.5°	2303.4	2305.9	2341.5	2356.8	2369.5
30°	2217.0	2222.0	2262.7	2280.5	2298.3
32.5°	2125.4	2135.6	2181.4	2201.7	2219.5
35°	2031.4	2044.1	2094.9	2117.8	2138.1
37.5°	1937.3	1955.1	2008.5	2031.4	2054.2
40°	1838.1	1853.4	1914.4	1942.4	1970.4
42.5°	1736.5	1756.8	1817.8	1858.5	1891.5
45°	1632.2	1655.1	1721.2	1772.0	1810.2
47.5°	1528.0	1558.5	1622.0	1690.7	1723.7
50°	1423.7	1454.2	1525.4	1601.7	1634.8
52.5°	1317.0	1347.5	1428.8	1507.6	1543.2
55°	1215.3	1245.8	1332.2	1418.7	1454.2
57.5°	1108.5	1141.5	1238.1	1327.1	1362.7
60°	1004.2	1037.3	1141.5	1235.6	1273.7
62.5°	902.5	938.1	1047.5	1146.6	1184.8
65°	798.3	839.0	953.4	1057.6	1098.3
67.5°	696.6	742.4	861.9	971.2	1014.4
70°	594.9	648.3	775.4	887.3	930.5
72.5°	495.8	554.2	689.0	800.9	823.7
75°	399.2	467.8	607.6	661.0	655.9
77.5°	307.6	383.9	516.1	526.3	541.5
80°	223.7	307.6	386.4	406.8	396.6
82.5°	147.5	231.4	277.1	267.0	264.4
85°	83.9	144.9	155.1	142.4	142.4
87.5°	35.6	58.5	50.8	38.1	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)