

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: P261019

Luminaire Tested: **24CZ-LD5-75-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261019
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-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8073.0 lumens
Efficiency: N/A
Efficacy: 135.1 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

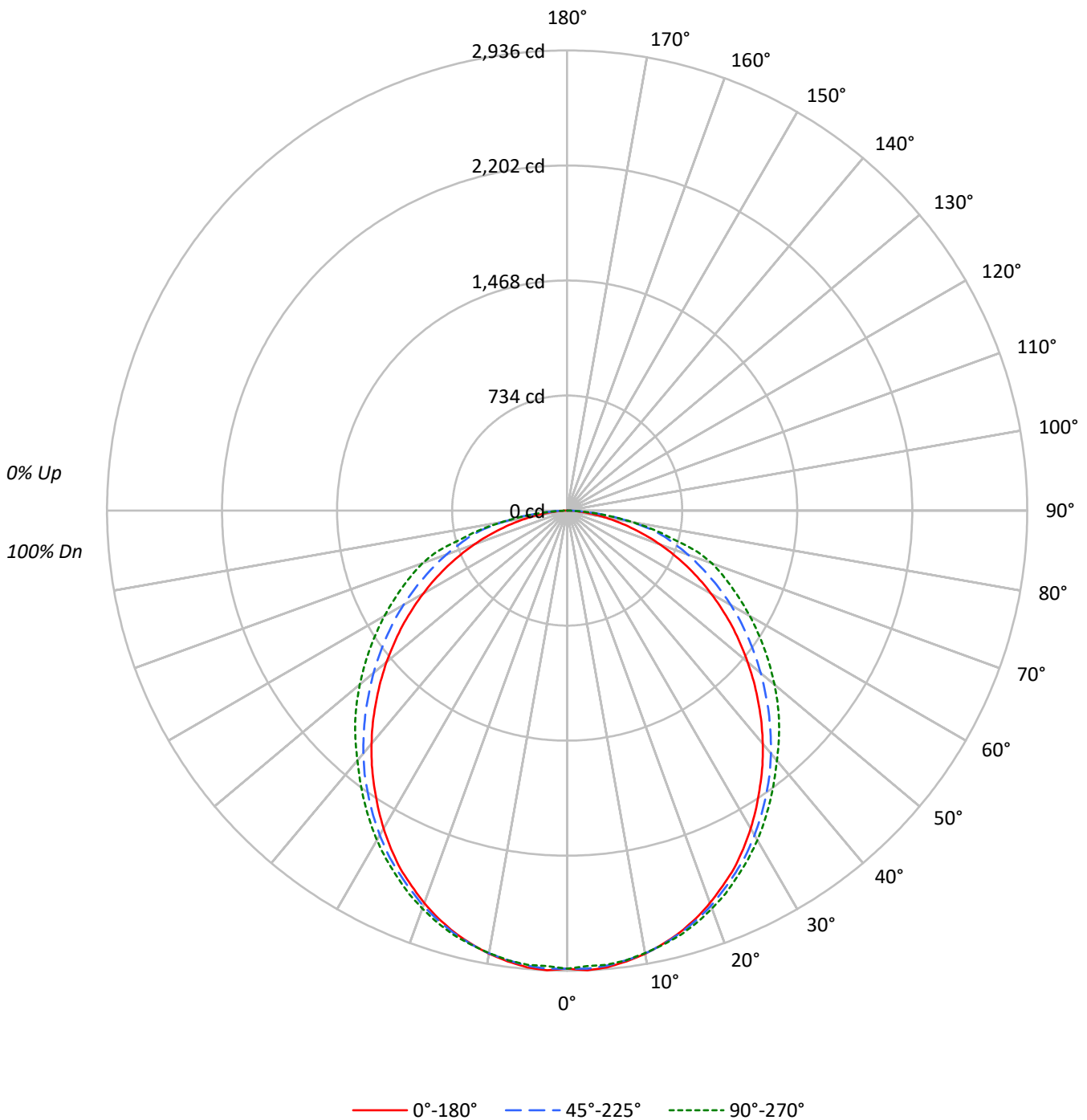
Input Watts (W): 59.747292
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3932	3932	3932
5°	3951	3936	3929
10°	3923	3920	3916
15°	3880	3888	3903
20°	3815	3842	3869
25°	3741	3780	3820
30°	3639	3714	3773
35°	3525	3636	3711
40°	3411	3553	3656
45°	3281	3460	3639
50°	3149	3374	3615
55°	3012	3302	3604
60°	2855	3246	3622
65°	2685	3207	3694
70°	2473	3223	3867
75°	2192	3337	3603
80°	1832	3164	3247
85°	1368	2530	2322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.3	3.4
10°-20°	785.8	9.7
20°-30°	1171.1	14.5
30°-40°	1378.6	17.1
40°-50°	1401.0	17.4
50°-60°	1259.6	15.6
60°-70°	995.1	12.3
70°-80°	631.3	7.8
80°-90°	174.2	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°	2233.3	27.7
0°-40°	3611.9	44.7
0°-60°	6272.4	77.7
0°-90°	8073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2923	2923	2923	2923	2923	
5°	2925	2901	2914	2909	2909	277
15°	2786	2772	2791	2799	2802	785
25°	2520	2517	2546	2563	2573	1159
35°	2146	2160	2213	2238	2259	1343
45°	1724	1749	1819	1872	1913	1331
55°	1284	1316	1408	1499	1536	1147
65°	844	886	1007	1118	1160	836
75°	422	494	642	698	693	449
85°	89	153	164	150	150	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2922.6	2922.6	2922.6	2922.6	2922.6
2.5°	2936.0	2914.5	2925.3	2919.9	2909.1
5°	2925.3	2901.1	2914.5	2909.1	2909.1
7.5°	2901.1	2882.3	2893.0	2890.3	2893.0
10°	2871.5	2852.7	2868.9	2868.9	2866.2
12.5°	2831.2	2815.1	2833.9	2833.9	2836.6
15°	2785.6	2772.1	2791.0	2799.0	2801.7
17.5°	2729.2	2715.7	2739.9	2748.0	2756.0
20°	2664.7	2659.3	2683.5	2691.6	2702.3
22.5°	2592.2	2592.2	2616.3	2627.1	2643.2
25°	2519.6	2517.0	2546.5	2562.6	2573.4
27.5°	2433.7	2436.4	2474.0	2490.1	2503.5
30°	2342.4	2347.7	2390.7	2409.5	2428.3
32.5°	2245.7	2256.4	2304.8	2326.2	2345.0
35°	2146.3	2159.7	2213.4	2237.6	2259.1
37.5°	2046.9	2065.7	2122.1	2146.3	2170.4
40°	1942.1	1958.2	2022.7	2052.2	2081.8
42.5°	1834.7	1856.2	1920.6	1963.6	1998.5
45°	1724.5	1748.7	1818.6	1872.3	1912.6
47.5°	1614.4	1646.6	1713.8	1786.3	1821.2
50°	1504.3	1536.5	1611.7	1692.3	1727.2
52.5°	1391.4	1423.7	1509.6	1592.9	1630.5
55°	1284.0	1316.2	1407.6	1498.9	1536.5
57.5°	1171.2	1206.1	1308.2	1402.2	1439.8
60°	1061.0	1096.0	1206.1	1305.5	1345.8
62.5°	953.6	991.2	1106.7	1211.5	1251.8
65°	843.5	886.4	1007.3	1117.5	1160.4
67.5°	736.0	784.4	910.6	1026.1	1071.8
70°	628.6	685.0	819.3	937.5	983.1
72.5°	523.8	585.6	728.0	846.1	870.3
75°	421.7	494.3	642.0	698.4	693.0
77.5°	325.0	405.6	545.3	556.0	572.2
80°	236.4	325.0	408.3	429.8	419.0
82.5°	155.8	244.4	292.8	282.0	279.4
85°	88.6	153.1	163.9	150.4	150.4
87.5°	37.6	61.8	53.7	40.3	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)