

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: P261017

Luminaire Tested: **24CZ-LD5-75-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261017
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-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7266.0 lumens
Efficiency: N/A
Efficacy: 124.7 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

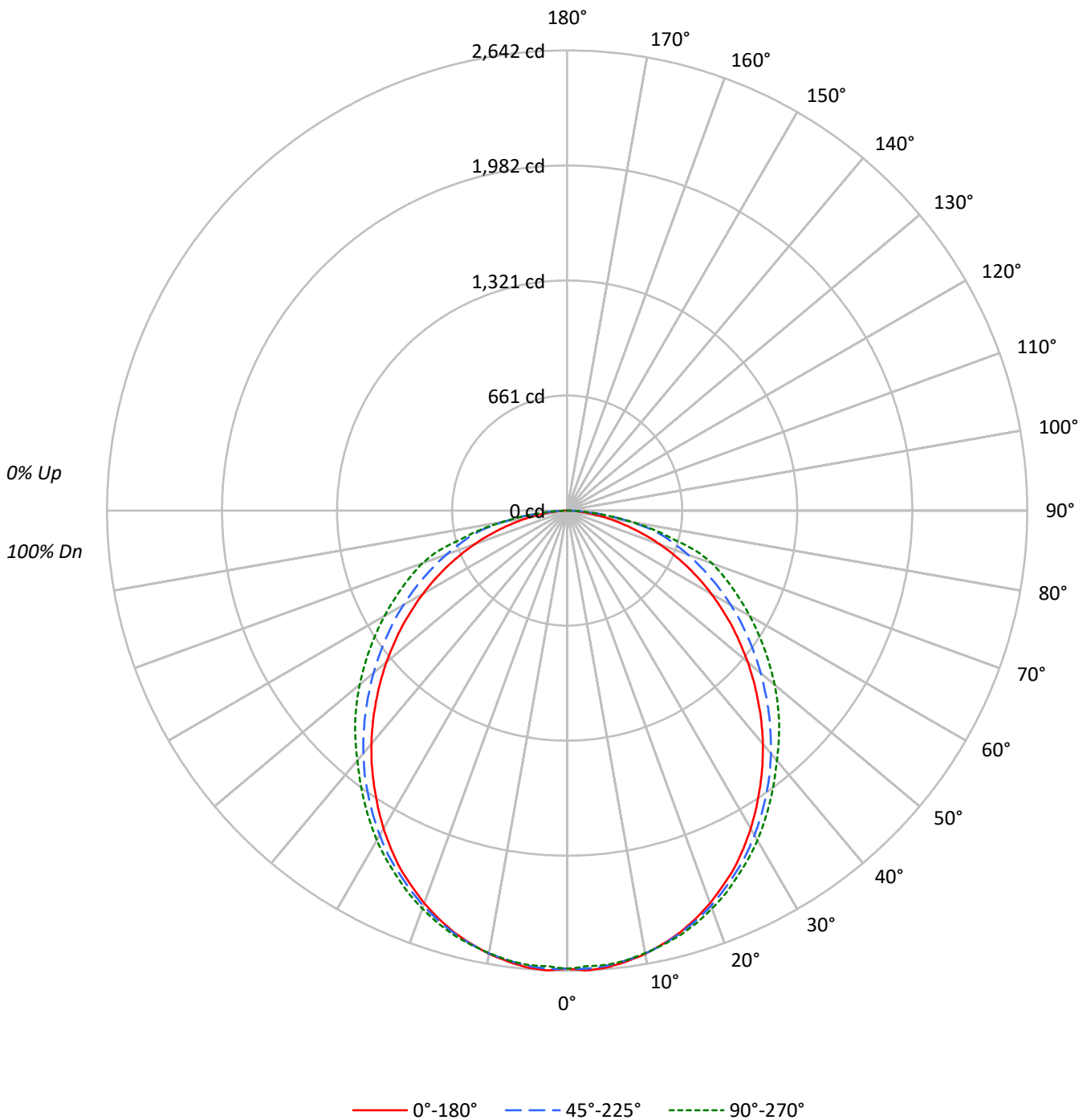
Input Watts (W): 58.287192
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3539	3539	3539
5°	3556	3543	3536
10°	3531	3528	3525
15°	3492	3499	3512
20°	3434	3458	3483
25°	3367	3403	3438
30°	3275	3343	3396
35°	3173	3272	3340
40°	3070	3198	3291
45°	2953	3115	3275
50°	2834	3036	3254
55°	2711	2972	3244
60°	2570	2921	3260
65°	2417	2886	3325
70°	2225	2901	3481
75°	1973	3004	3243
80°	1649	2848	2923
85°	1232	2277	2090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.7	3.4
10°-20°	707.3	9.7
20°-30°	1054.1	14.5
30°-40°	1240.8	17.1
40°-50°	1260.9	17.4
50°-60°	1133.7	15.6
60°-70°	895.6	12.3
70°-80°	568.2	7.8
80°-90°	156.8	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°	2010.1	27.7
0°-40°	3250.8	44.7
0°-60°	5645.4	77.7
0°-90°	7266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2630	2630	2630	2630	2630	
5°	2633	2611	2623	2618	2618	250
15°	2507	2495	2512	2519	2522	706
25°	2268	2265	2292	2306	2316	1043
35°	1932	1944	1992	2014	2033	1209
45°	1552	1574	1637	1685	1721	1198
55°	1156	1185	1267	1349	1383	1032
65°	759	798	907	1006	1044	752
75°	380	445	578	629	624	404
85°	80	138	148	135	135	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2630.4	2630.4	2630.4	2630.4	2630.4
2.5°	2642.5	2623.2	2632.8	2628.0	2618.3
5°	2632.8	2611.1	2623.2	2618.3	2618.3
7.5°	2611.1	2594.2	2603.8	2601.4	2603.8
10°	2584.5	2567.6	2582.1	2582.1	2579.7
12.5°	2548.2	2533.7	2550.6	2550.6	2553.1
15°	2507.1	2495.0	2512.0	2519.2	2521.6
17.5°	2456.4	2444.3	2466.0	2473.3	2480.5
20°	2398.3	2393.5	2415.3	2422.5	2432.2
22.5°	2333.1	2333.1	2354.8	2364.5	2379.0
25°	2267.8	2265.4	2292.0	2306.5	2316.1
27.5°	2190.4	2192.8	2226.7	2241.2	2253.3
30°	2108.2	2113.0	2151.7	2168.7	2185.6
32.5°	2021.2	2030.8	2074.4	2093.7	2110.6
35°	1931.7	1943.8	1992.2	2013.9	2033.3
37.5°	1842.3	1859.2	1910.0	1931.7	1953.5
40°	1748.0	1762.5	1820.5	1847.1	1873.7
42.5°	1651.3	1670.6	1728.6	1767.3	1798.7
45°	1552.1	1573.9	1636.8	1685.1	1721.4
47.5°	1453.0	1482.0	1542.5	1607.8	1639.2
50°	1353.9	1382.9	1450.6	1523.1	1554.6
52.5°	1252.4	1281.4	1358.7	1433.7	1467.5
55°	1155.6	1184.7	1266.9	1349.1	1382.9
57.5°	1054.1	1085.5	1177.4	1262.0	1295.9
60°	955.0	986.4	1085.5	1175.0	1211.3
62.5°	858.3	892.1	996.1	1090.4	1126.6
65°	759.1	797.8	906.6	1005.8	1044.4
67.5°	662.4	706.0	819.6	923.6	964.7
70°	565.7	616.5	737.4	843.8	884.9
72.5°	471.4	527.1	655.2	761.6	783.3
75°	379.6	444.9	577.8	628.6	623.8
77.5°	292.5	365.1	490.8	500.5	515.0
80°	212.8	292.5	367.5	386.8	377.2
82.5°	140.2	220.0	263.5	253.9	251.4
85°	79.8	137.8	147.5	135.4	135.4
87.5°	33.8	55.6	48.4	36.3	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)