

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: P261197

Luminaire Tested: **24CZ-LD5-70-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261197
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-LD5-70-S-UNV-L82765-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: 7179.0 lumens
Efficiency: N/A
Efficacy: 132.2 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

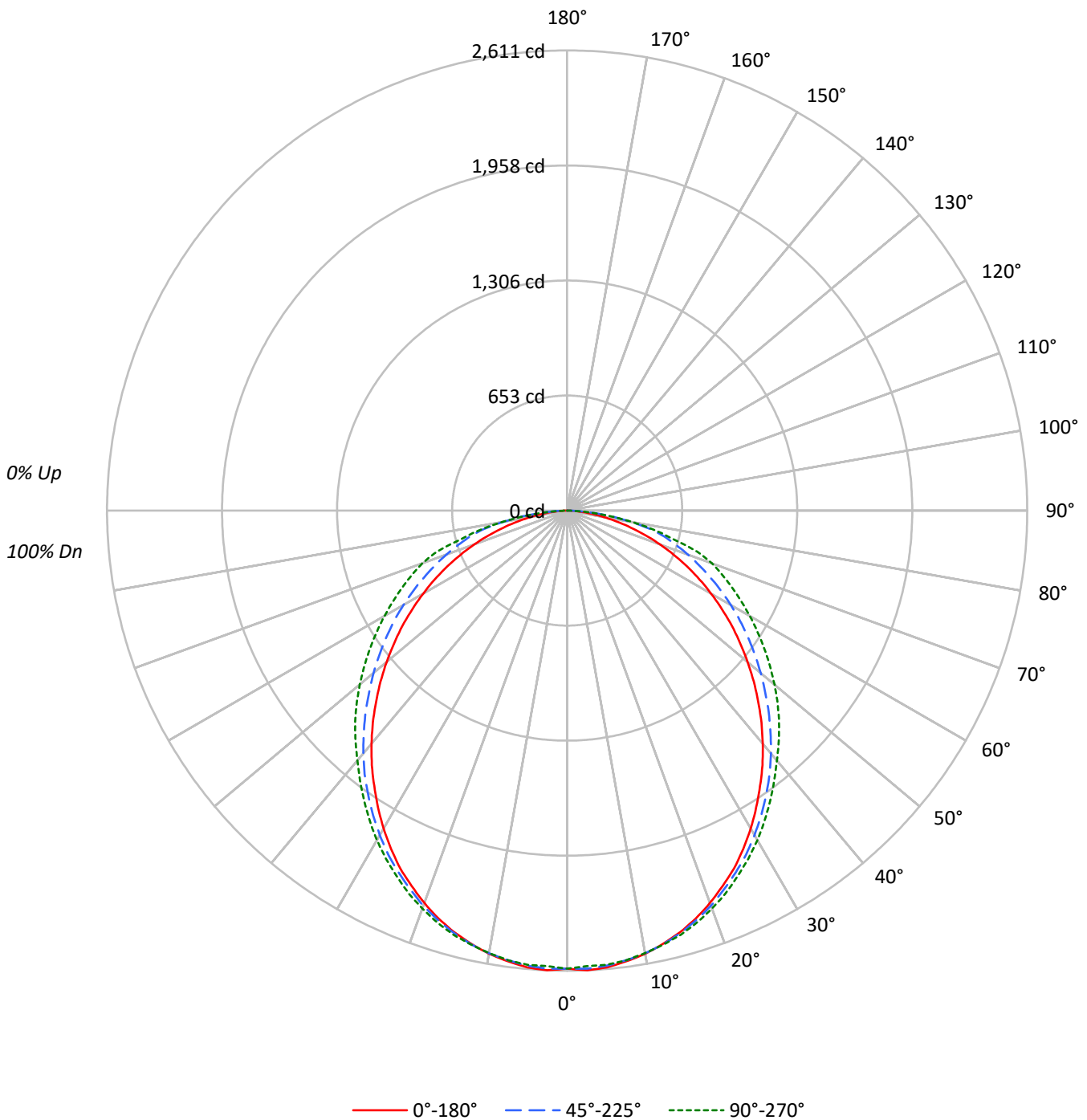
Input Watts (W): 54.312
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3497	3497	3497
5°	3513	3501	3494
10°	3489	3486	3482
15°	3450	3457	3470
20°	3393	3417	3441
25°	3326	3362	3397
30°	3236	3303	3355
35°	3135	3233	3300
40°	3033	3159	3252
45°	2918	3077	3236
50°	2800	3000	3215
55°	2678	2936	3205
60°	2539	2886	3220
65°	2388	2852	3285
70°	2199	2866	3439
75°	1949	2968	3204
80°	1629	2813	2887
85°	1216	2249	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	3.4
10°-20°	698.8	9.7
20°-30°	1041.4	14.5
30°-40°	1225.9	17.1
40°-50°	1245.8	17.4
50°-60°	1120.1	15.6
60°-70°	884.9	12.3
70°-80°	561.4	7.8
80°-90°	154.9	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°	1986.0	27.7
0°-40°	3211.9	44.7
0°-60°	5577.8	77.7
0°-90°	7179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2599	2599	2599	2599	2599	
5°	2601	2580	2592	2587	2587	247
15°	2477	2465	2482	2489	2491	698
25°	2241	2238	2264	2279	2288	1030
35°	1909	1920	1968	1990	2009	1194
45°	1534	1555	1617	1665	1701	1183
55°	1142	1170	1252	1333	1366	1020
65°	750	788	896	994	1032	743
75°	375	440	571	621	616	399
85°	79	136	146	134	134	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2598.9	2598.9	2598.9	2598.9	2598.9
2.5°	2610.9	2591.8	2601.3	2596.5	2587.0
5°	2601.3	2579.8	2591.8	2587.0	2587.0
7.5°	2579.8	2563.1	2572.7	2570.3	2572.7
10°	2553.5	2536.8	2551.2	2551.2	2548.8
12.5°	2517.7	2503.4	2520.1	2520.1	2522.5
15°	2477.1	2465.2	2481.9	2489.0	2491.4
17.5°	2426.9	2415.0	2436.5	2443.7	2450.8
20°	2369.6	2364.8	2386.3	2393.5	2403.1
22.5°	2305.1	2305.1	2326.6	2336.2	2350.5
25°	2240.6	2238.2	2264.5	2278.8	2288.4
27.5°	2164.2	2166.6	2200.0	2214.3	2226.3
30°	2083.0	2087.7	2126.0	2142.7	2159.4
32.5°	1997.0	2006.5	2049.5	2068.6	2085.4
35°	1908.6	1920.5	1968.3	1989.8	2008.9
37.5°	1820.2	1836.9	1887.1	1908.6	1930.1
40°	1727.0	1741.4	1798.7	1825.0	1851.3
42.5°	1631.5	1650.6	1707.9	1746.2	1777.2
45°	1533.6	1555.1	1617.2	1664.9	1700.8
47.5°	1435.6	1464.3	1524.0	1588.5	1619.6
50°	1337.7	1366.3	1433.2	1504.9	1535.9
52.5°	1237.4	1266.0	1342.5	1416.5	1450.0
55°	1141.8	1170.5	1251.7	1332.9	1366.3
57.5°	1041.5	1072.5	1163.3	1246.9	1280.4
60°	943.5	974.6	1072.5	1160.9	1196.7
62.5°	848.0	881.4	984.2	1077.3	1113.1
65°	750.1	788.3	895.8	993.7	1031.9
67.5°	654.5	697.5	809.8	912.5	953.1
70°	559.0	609.1	728.6	833.7	874.3
72.5°	465.8	520.7	647.3	752.4	773.9
75°	375.0	439.5	570.9	621.1	616.3
77.5°	289.0	360.7	484.9	494.5	508.8
80°	210.2	289.0	363.1	382.2	372.6
82.5°	138.5	217.4	260.4	250.8	248.4
85°	78.8	136.2	145.7	133.8	133.8
87.5°	33.4	54.9	47.8	35.8	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)