

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: P261344

Luminaire Tested: **24CZ-LD5-75-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261344
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-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7218.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

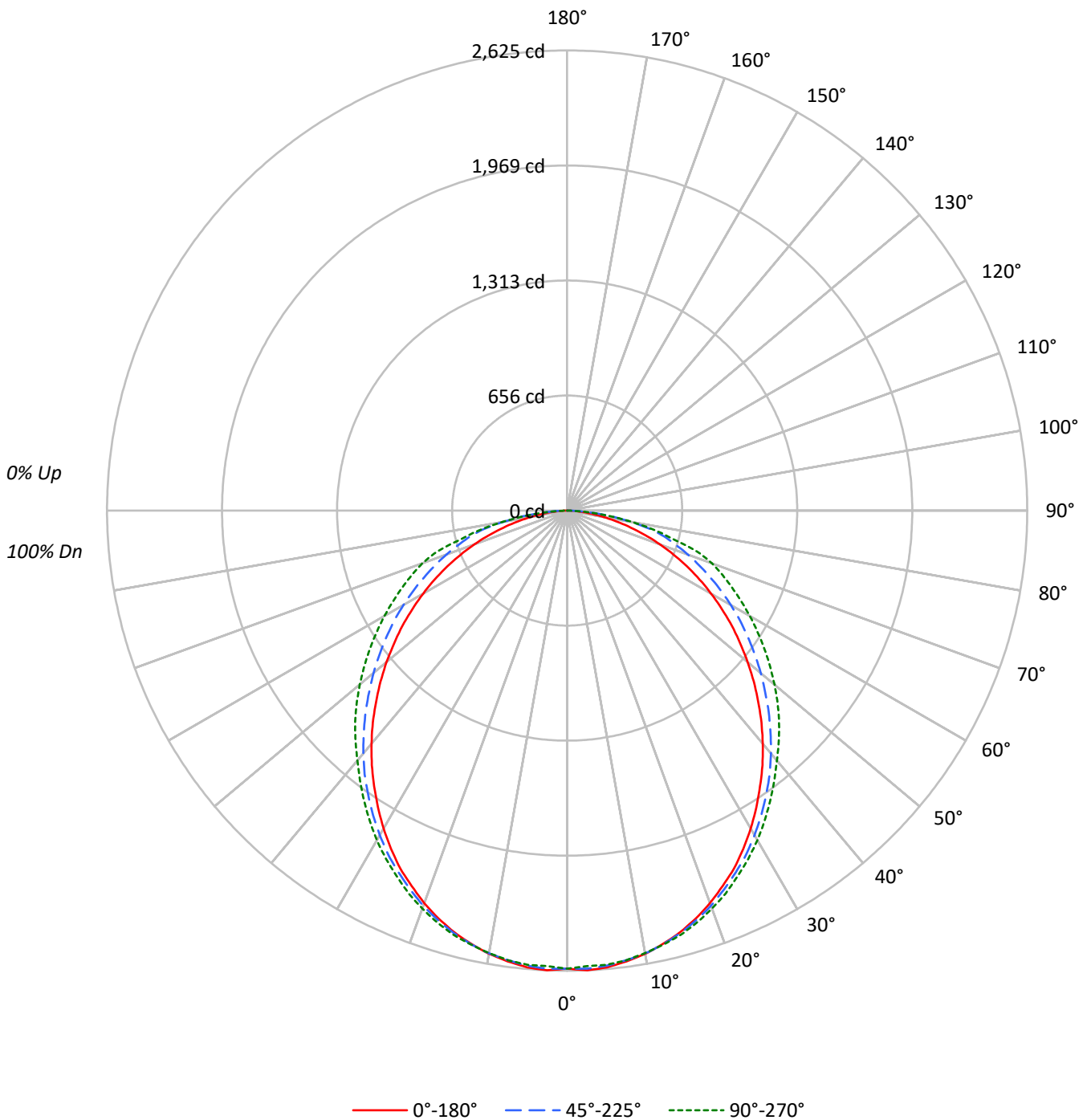
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3516	3516	3516
5°	3533	3519	3513
10°	3508	3504	3501
15°	3469	3476	3489
20°	3411	3435	3459
25°	3344	3380	3416
30°	3254	3321	3373
35°	3152	3251	3318
40°	3050	3176	3269
45°	2934	3094	3254
50°	2815	3016	3233
55°	2693	2952	3223
60°	2553	2902	3238
65°	2401	2867	3303
70°	2211	2882	3458
75°	1960	2984	3221
80°	1637	2829	2903
85°	1224	2262	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	3.4
10°-20°	702.6	9.7
20°-30°	1047.1	14.5
30°-40°	1232.6	17.1
40°-50°	1252.6	17.4
50°-60°	1126.2	15.6
60°-70°	889.7	12.3
70°-80°	564.4	7.8
80°-90°	155.8	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°	1996.8	27.7
0°-40°	3229.4	44.7
0°-60°	5608.1	77.7
0°-90°	7218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7218.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2613	2613	2613	2613	2613	
5°	2616	2594	2606	2601	2601	248
15°	2491	2479	2495	2503	2505	702
25°	2253	2250	2277	2291	2301	1036
35°	1919	1931	1979	2001	2020	1201
45°	1542	1564	1626	1674	1710	1190
55°	1148	1177	1258	1340	1374	1025
65°	754	793	901	999	1038	747
75°	377	442	574	624	620	401
85°	79	137	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°	2613.0	2613.0	2613.0	2613.0	2613.0
2.5°	2625.1	2605.8	2615.5	2610.6	2601.0
5°	2615.5	2593.8	2605.8	2601.0	2601.0
7.5°	2593.8	2577.0	2586.6	2584.2	2586.6
10°	2567.4	2550.6	2565.0	2565.0	2562.6
12.5°	2531.4	2517.0	2533.8	2533.8	2536.2
15°	2490.6	2478.6	2495.4	2502.6	2505.0
17.5°	2440.1	2428.1	2449.7	2456.9	2464.1
20°	2382.5	2377.7	2399.3	2406.5	2416.1
22.5°	2317.6	2317.6	2339.3	2348.9	2363.3
25°	2252.8	2250.4	2276.8	2291.2	2300.8
27.5°	2175.9	2178.3	2212.0	2226.4	2238.4
30°	2094.3	2099.1	2137.5	2154.3	2171.1
32.5°	2007.8	2017.4	2060.7	2079.9	2096.7
35°	1919.0	1931.0	1979.0	2000.6	2019.8
37.5°	1830.1	1846.9	1897.3	1919.0	1940.6
40°	1736.4	1750.8	1808.5	1834.9	1861.3
42.5°	1640.4	1659.6	1717.2	1755.6	1786.9
45°	1541.9	1563.5	1626.0	1674.0	1710.0
47.5°	1443.4	1472.2	1532.3	1597.1	1628.4
50°	1345.0	1373.8	1441.0	1513.1	1544.3
52.5°	1244.1	1272.9	1349.8	1424.2	1457.8
55°	1148.0	1176.8	1258.5	1340.1	1373.8
57.5°	1047.1	1078.4	1169.6	1253.7	1287.3
60°	948.7	979.9	1078.4	1167.2	1203.3
62.5°	852.6	886.2	989.5	1083.2	1119.2
65°	754.1	792.6	900.6	999.1	1037.5
67.5°	658.1	701.3	814.2	917.4	958.3
70°	562.0	612.4	732.5	838.2	879.0
72.5°	468.3	523.6	650.9	756.5	778.2
75°	377.1	441.9	574.0	624.4	619.6
77.5°	290.6	362.7	487.5	497.2	511.6
80°	211.3	290.6	365.1	384.3	374.7
82.5°	139.3	218.6	261.8	252.2	249.8
85°	79.3	136.9	146.5	134.5	134.5
87.5°	33.6	55.2	48.0	36.0	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)