

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: P261010

Luminaire Tested: **24CZ-LD5-65-S-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261010
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-LD5-65-S-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7067.0 lumens
Efficiency: N/A
Efficacy: 137.7 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

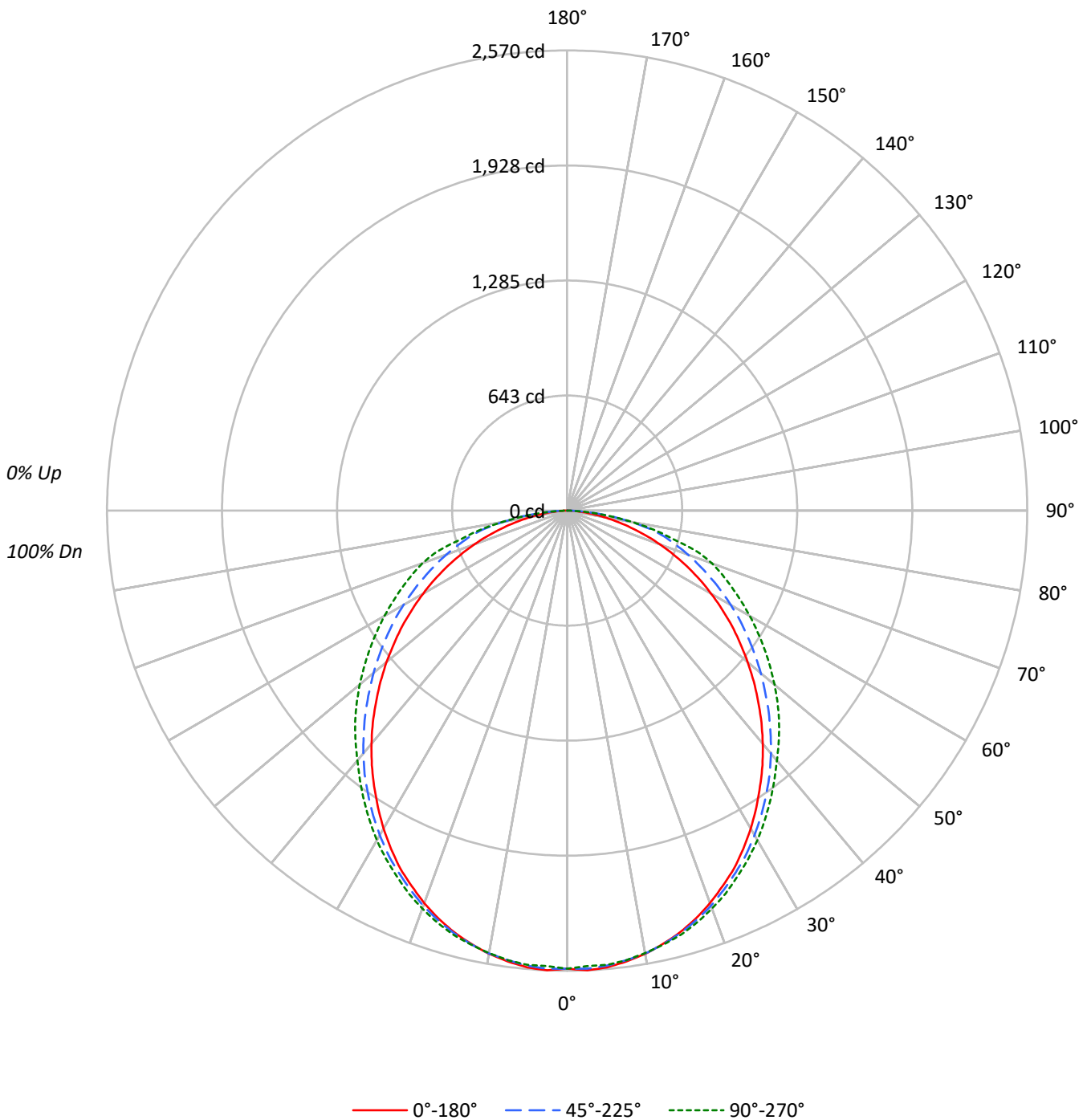
Input Watts (W): 51.314982
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3442	3442	3442
5°	3459	3446	3440
10°	3434	3431	3428
15°	3397	3403	3416
20°	3340	3364	3387
25°	3275	3309	3344
30°	3186	3251	3303
35°	3086	3183	3248
40°	2986	3110	3201
45°	2872	3029	3186
50°	2756	2953	3165
55°	2637	2890	3155
60°	2499	2841	3170
65°	2351	2807	3234
70°	2164	2821	3386
75°	1919	2922	3154
80°	1603	2769	2842
85°	1198	2214	2033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	3.4
10°-20°	687.9	9.7
20°-30°	1025.2	14.5
30°-40°	1206.8	17.1
40°-50°	1226.4	17.4
50°-60°	1102.6	15.6
60°-70°	871.1	12.3
70°-80°	552.6	7.8
80°-90°	152.5	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°	1955.0	27.7
0°-40°	3161.8	44.7
0°-60°	5490.8	77.7
0°-90°	7067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2558	2558	2558	2558	2558	
5°	2561	2540	2551	2547	2547	243
15°	2438	2427	2443	2450	2453	687
25°	2206	2203	2229	2243	2253	1014
35°	1879	1891	1938	1959	1978	1175
45°	1510	1531	1592	1639	1674	1165
55°	1124	1152	1232	1312	1345	1004
65°	738	776	882	978	1016	731
75°	369	433	562	611	607	393
85°	78	134	143	132	132	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2558.4	2558.4	2558.4	2558.4	2558.4
2.5°	2570.1	2551.3	2560.7	2556.0	2546.6
5°	2560.7	2539.6	2551.3	2546.6	2546.6
7.5°	2539.6	2523.1	2532.5	2530.2	2532.5
10°	2513.7	2497.2	2511.4	2511.4	2509.0
12.5°	2478.4	2464.3	2480.8	2480.8	2483.1
15°	2438.5	2426.7	2443.2	2450.2	2452.6
17.5°	2389.1	2377.3	2398.5	2405.5	2412.6
20°	2332.6	2327.9	2349.1	2356.2	2365.6
22.5°	2269.2	2269.2	2290.3	2299.7	2313.8
25°	2205.7	2203.3	2229.2	2243.3	2252.7
27.5°	2130.4	2132.8	2165.7	2179.8	2191.6
30°	2050.5	2055.2	2092.8	2109.3	2125.7
32.5°	1965.8	1975.2	2017.5	2036.4	2052.8
35°	1878.8	1890.6	1937.6	1958.8	1977.6
37.5°	1791.8	1808.3	1857.7	1878.8	1900.0
40°	1700.1	1714.2	1770.6	1796.5	1822.4
42.5°	1606.0	1624.9	1681.3	1718.9	1749.5
45°	1509.6	1530.8	1591.9	1639.0	1674.2
47.5°	1413.2	1441.4	1500.2	1563.7	1594.3
50°	1316.8	1345.0	1410.9	1481.4	1512.0
52.5°	1218.1	1246.3	1321.5	1394.4	1427.3
55°	1124.0	1152.2	1232.2	1312.1	1345.0
57.5°	1025.2	1055.8	1145.2	1227.5	1260.4
60°	928.8	959.4	1055.8	1142.8	1178.1
62.5°	834.8	867.7	968.8	1060.5	1095.8
65°	738.4	776.0	881.8	978.2	1015.8
67.5°	644.3	686.6	797.1	898.3	938.2
70°	550.2	599.6	717.2	820.7	860.6
72.5°	458.5	512.6	637.2	740.7	761.9
75°	369.2	432.7	562.0	611.4	606.7
77.5°	284.5	355.1	477.3	486.8	500.9
80°	206.9	284.5	357.4	376.2	366.8
82.5°	136.4	214.0	256.3	246.9	244.6
85°	77.6	134.0	143.4	131.7	131.7
87.5°	32.9	54.1	47.0	35.3	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)