

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: P261005

Luminaire Tested: **24CZ-LD5-60-S-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261005
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-LD5-60-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: 6522.0 lumens
Efficiency: N/A
Efficacy: 140.4 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

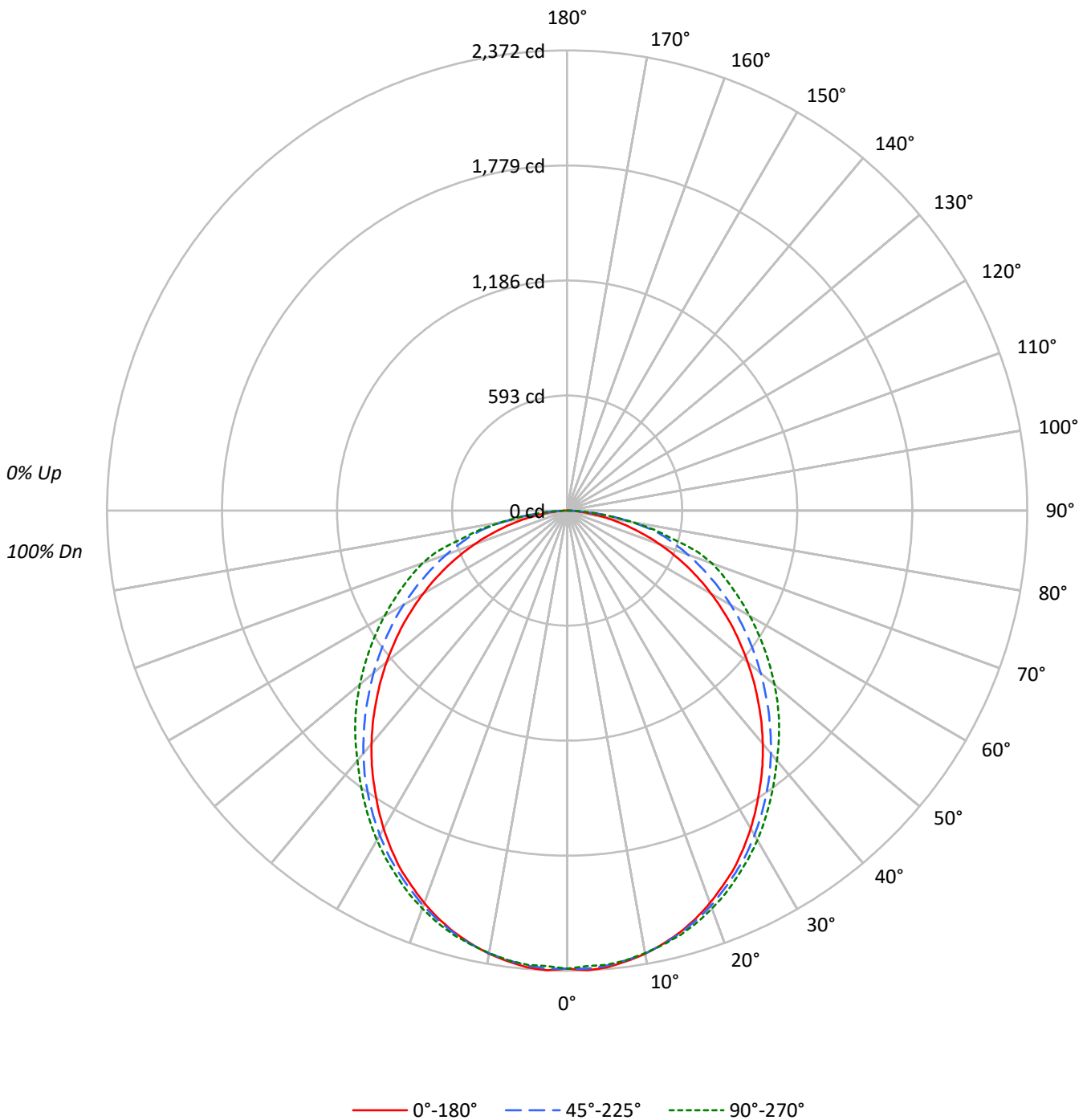
Input Watts (W): 46.437132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3177	3177	3177
5°	3192	3180	3174
10°	3170	3167	3164
15°	3135	3141	3153
20°	3082	3104	3126
25°	3022	3054	3086
30°	2940	3001	3048
35°	2848	2937	2998
40°	2756	2870	2954
45°	2651	2796	2940
50°	2544	2726	2921
55°	2433	2667	2912
60°	2307	2622	2926
65°	2169	2591	2985
70°	1998	2604	3125
75°	1771	2696	2911
80°	1480	2556	2623
85°	1105	2044	1876



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.2	3.4
10°-20°	634.9	9.7
20°-30°	946.1	14.5
30°-40°	1113.7	17.1
40°-50°	1131.8	17.4
50°-60°	1017.6	15.6
60°-70°	803.9	12.3
70°-80°	510.0	7.8
80°-90°	140.8	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°	1804.2	27.7
0°-40°	2918.0	44.7
0°-60°	5067.4	77.7
0°-90°	6522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2361	2361	2361	2361	2361	
5°	2363	2344	2355	2350	2350	224
15°	2250	2240	2255	2261	2263	634
25°	2036	2033	2057	2070	2079	936
35°	1734	1745	1788	1808	1825	1085
45°	1393	1413	1469	1513	1545	1075
55°	1037	1063	1137	1211	1241	926
65°	681	716	814	903	938	675
75°	341	399	519	564	560	363
85°	72	124	132	122	122	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2361.1	2361.1	2361.1	2361.1	2361.1
2.5°	2371.9	2354.6	2363.3	2358.9	2350.2
5°	2363.3	2343.7	2354.6	2350.2	2350.2
7.5°	2343.7	2328.5	2337.2	2335.0	2337.2
10°	2319.9	2304.7	2317.7	2317.7	2315.5
12.5°	2287.3	2274.3	2289.5	2289.5	2291.6
15°	2250.4	2239.6	2254.7	2261.3	2263.4
17.5°	2204.8	2194.0	2213.5	2220.0	2226.5
20°	2152.8	2148.4	2167.9	2174.5	2183.1
22.5°	2094.2	2094.2	2113.7	2122.4	2135.4
25°	2035.6	2033.4	2057.3	2070.3	2079.0
27.5°	1966.1	1968.3	1998.7	2011.7	2022.5
30°	1892.3	1896.7	1931.4	1946.6	1961.8
32.5°	1814.2	1822.9	1862.0	1879.3	1894.5
35°	1733.9	1744.8	1788.2	1807.7	1825.1
37.5°	1653.6	1668.8	1714.4	1733.9	1753.5
40°	1569.0	1582.0	1634.1	1658.0	1681.8
42.5°	1482.2	1499.5	1551.6	1586.4	1614.6
45°	1393.2	1412.7	1469.2	1512.6	1545.1
47.5°	1304.2	1330.3	1384.5	1443.1	1471.3
50°	1215.3	1241.3	1302.1	1367.2	1395.4
52.5°	1124.1	1150.2	1219.6	1286.9	1317.3
55°	1037.3	1063.4	1137.1	1210.9	1241.3
57.5°	946.2	974.4	1056.8	1132.8	1163.2
60°	857.2	885.4	974.4	1054.7	1087.2
62.5°	770.4	800.8	894.1	978.7	1011.3
65°	681.4	716.1	813.8	902.8	937.5
67.5°	594.6	633.7	735.7	829.0	865.9
70°	507.8	553.4	661.9	757.4	794.3
72.5°	423.2	473.1	588.1	683.6	703.1
75°	340.7	399.3	518.7	564.2	559.9
77.5°	262.6	327.7	440.5	449.2	462.2
80°	191.0	262.6	329.9	347.2	338.5
82.5°	125.9	197.5	236.5	227.9	225.7
85°	71.6	123.7	132.4	121.5	121.5
87.5°	30.4	49.9	43.4	32.6	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)