

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: P261007

Luminaire Tested: **24CZ-LD5-65-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261007
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-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: 6300.0 lumens
Efficiency: N/A
Efficacy: 129.0 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

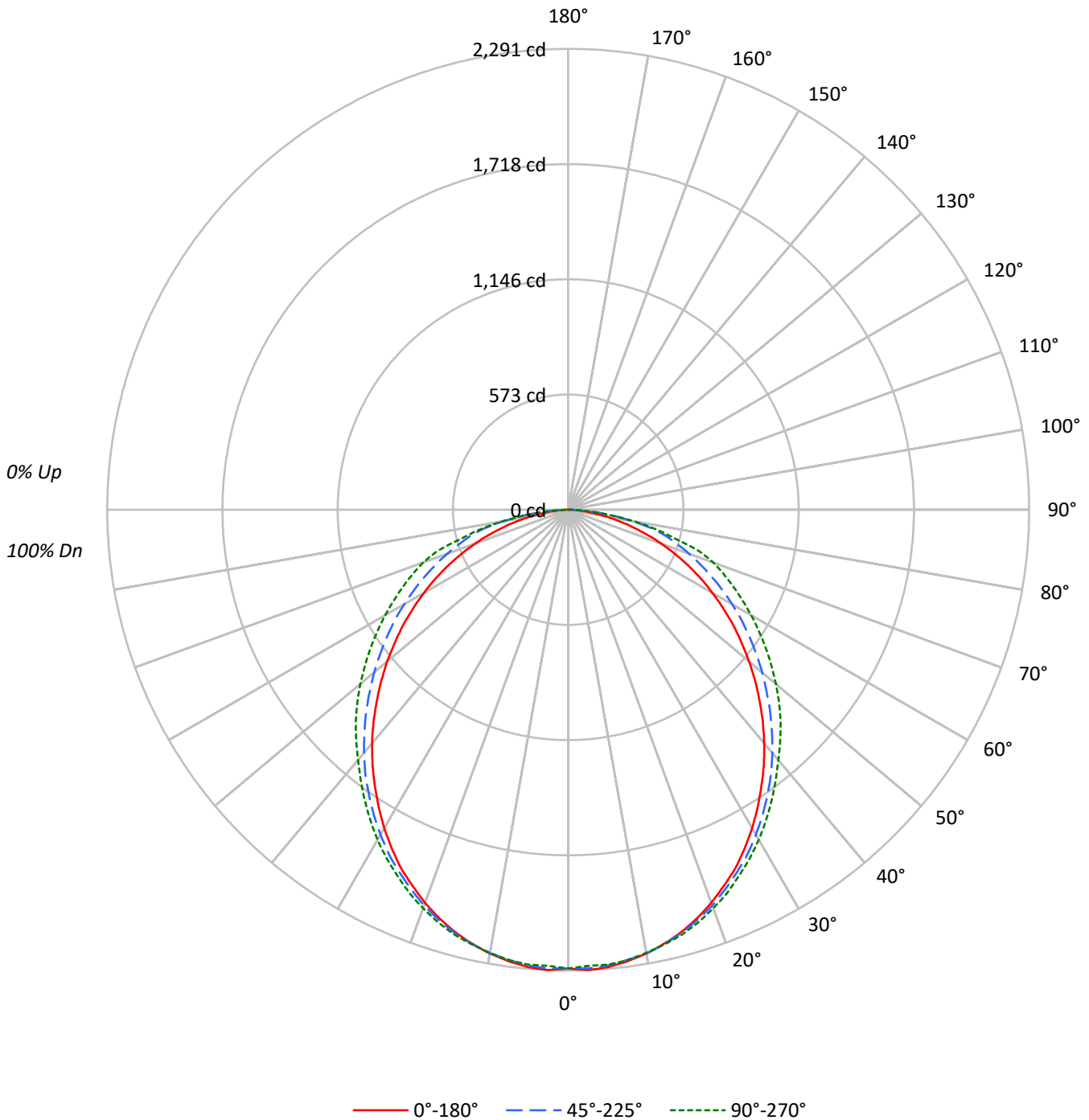
Input Watts (W): 48.820164
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3069	3069	3069
5°	3083	3072	3066
10°	3062	3059	3056
15°	3028	3034	3046
20°	2978	2998	3019
25°	2919	2950	2981
30°	2840	2899	2944
35°	2751	2837	2896
40°	2662	2772	2853
45°	2561	2700	2840
50°	2457	2633	2821
55°	2350	2577	2813
60°	2228	2533	2826
65°	2096	2503	2883
70°	1930	2515	3018
75°	1711	2604	2811
80°	1430	2469	2534
85°	1068	1974	1812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	3.4
10°-20°	613.3	9.7
20°-30°	913.9	14.5
30°-40°	1075.8	17.1
40°-50°	1093.3	17.4
50°-60°	982.9	15.6
60°-70°	776.5	12.3
70°-80°	492.6	7.8
80°-90°	136.0	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°	1742.8	27.7
0°-40°	2818.6	44.7
0°-60°	4894.9	77.7
0°-90°	6300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2281	2281	2281	2281	2281	
5°	2283	2264	2274	2270	2270	216
15°	2174	2163	2178	2184	2186	612
25°	1966	1964	1987	2000	2008	904
35°	1675	1685	1727	1746	1763	1048
45°	1346	1365	1419	1461	1492	1038
55°	1002	1027	1098	1170	1199	895
65°	658	692	786	872	906	652
75°	329	386	501	545	541	350
85°	69	120	128	117	117	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2280.7	2280.7	2280.7	2280.7	2280.7
2.5°	2291.2	2274.4	2282.8	2278.6	2270.2
5°	2282.8	2263.9	2274.4	2270.2	2270.2
7.5°	2263.9	2249.3	2257.7	2255.6	2257.7
10°	2240.9	2226.2	2238.8	2238.8	2236.7
12.5°	2209.4	2196.9	2211.5	2211.5	2213.6
15°	2173.8	2163.3	2178.0	2184.3	2186.4
17.5°	2129.8	2119.3	2138.2	2144.5	2150.7
20°	2079.5	2075.3	2094.1	2100.4	2108.8
22.5°	2022.9	2022.9	2041.7	2050.1	2062.7
25°	1966.3	1964.2	1987.2	1999.8	2008.2
27.5°	1899.2	1901.3	1930.6	1943.2	1953.7
30°	1827.9	1832.1	1865.7	1880.3	1895.0
32.5°	1752.5	1760.8	1798.6	1815.3	1830.0
35°	1674.9	1685.4	1727.3	1746.2	1762.9
37.5°	1597.3	1612.0	1656.0	1674.9	1693.8
40°	1515.6	1528.2	1578.5	1601.5	1624.6
42.5°	1431.7	1448.5	1498.8	1532.4	1559.6
45°	1345.8	1364.7	1419.2	1461.1	1492.5
47.5°	1259.8	1285.0	1337.4	1394.0	1421.3
50°	1173.9	1199.1	1257.7	1320.6	1347.9
52.5°	1085.9	1111.0	1178.1	1243.1	1272.4
55°	1002.0	1027.2	1098.4	1169.7	1199.1
57.5°	914.0	941.2	1020.9	1094.2	1123.6
60°	828.0	855.3	941.2	1018.8	1050.2
62.5°	744.2	773.5	863.7	945.4	976.9
65°	658.2	691.8	786.1	872.0	905.6
67.5°	574.4	612.1	710.6	800.8	836.4
70°	490.5	534.5	639.4	731.6	767.2
72.5°	408.8	457.0	568.1	660.3	679.2
75°	329.1	385.7	501.0	545.0	540.8
77.5°	253.6	316.5	425.5	433.9	446.5
80°	184.5	253.6	318.6	335.4	327.0
82.5°	121.6	190.8	228.5	220.1	218.0
85°	69.2	119.5	127.9	117.4	117.4
87.5°	29.3	48.2	41.9	31.4	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)