

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: P261324

Luminaire Tested: **24CZ-LD5-65-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261324
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-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6040.0 lumens
Efficiency: N/A
Efficacy: 121.2 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

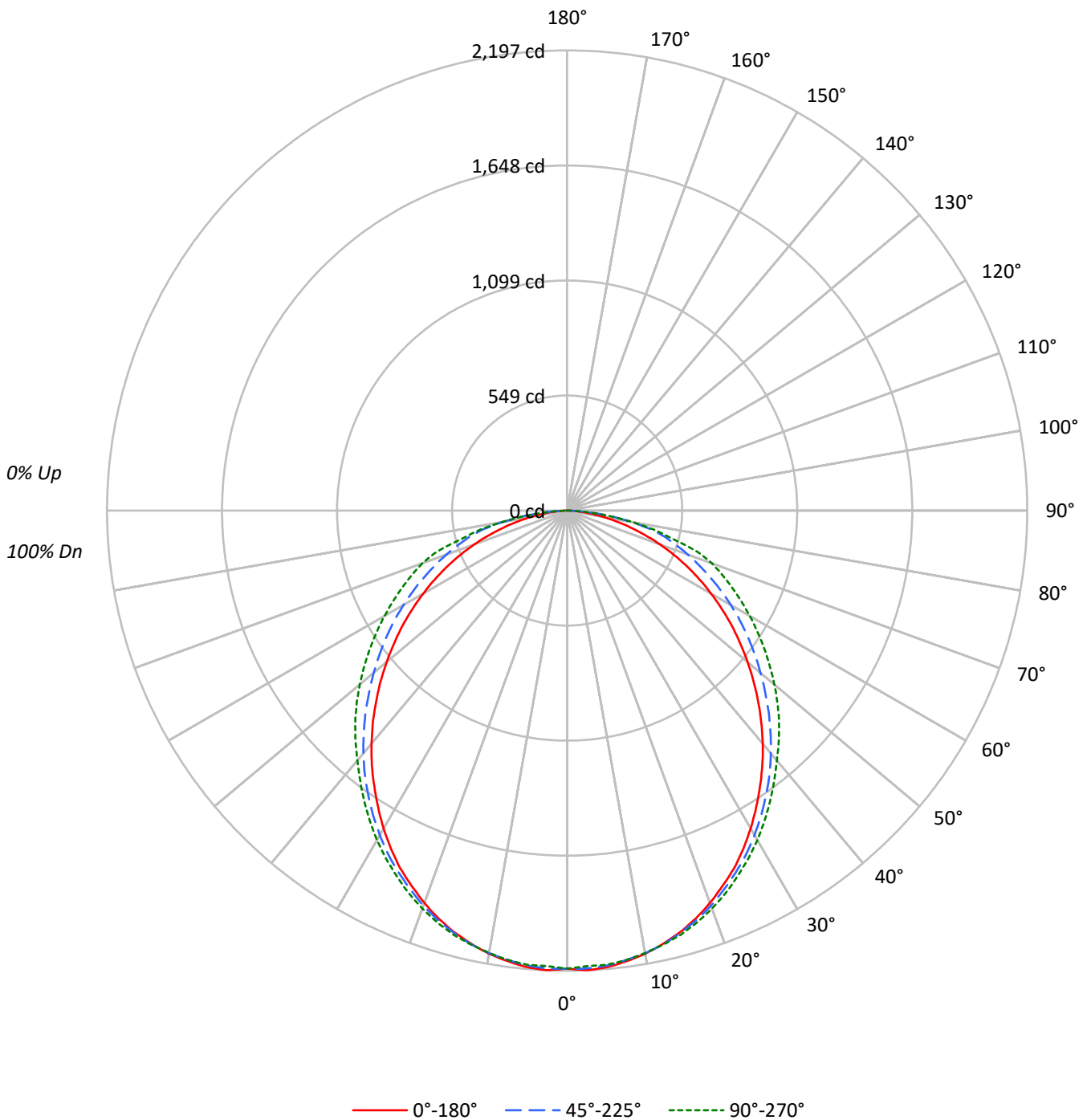
Input Watts (W): 49.848
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2942	2942	2942
5°	2956	2945	2940
10°	2935	2933	2930
15°	2903	2909	2920
20°	2855	2875	2895
25°	2799	2828	2858
30°	2723	2779	2823
35°	2638	2720	2776
40°	2552	2658	2736
45°	2455	2589	2723
50°	2356	2524	2705
55°	2254	2470	2697
60°	2136	2428	2710
65°	2009	2400	2764
70°	1850	2412	2894
75°	1640	2497	2695
80°	1371	2367	2429
85°	1024	1893	1737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	3.4
10°-20°	588.0	9.7
20°-30°	876.2	14.5
30°-40°	1031.4	17.1
40°-50°	1048.2	17.4
50°-60°	942.4	15.6
60°-70°	744.5	12.3
70°-80°	472.3	7.8
80°-90°	130.4	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°	1670.9	27.7
0°-40°	2702.3	44.7
0°-60°	4692.8	77.7
0°-90°	6040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2187	2187	2187	2187	2187	
5°	2189	2170	2181	2176	2176	208
15°	2084	2074	2088	2094	2096	587
25°	1885	1883	1905	1917	1925	867
35°	1606	1616	1656	1674	1690	1005
45°	1290	1308	1361	1401	1431	996
55°	961	985	1053	1121	1150	858
65°	631	663	754	836	868	625
75°	316	370	480	522	518	336
85°	66	115	123	112	112	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2186.6	2186.6	2186.6	2186.6	2186.6
2.5°	2196.6	2180.6	2188.6	2184.6	2176.5
5°	2188.6	2170.5	2180.6	2176.5	2176.5
7.5°	2170.5	2156.4	2164.5	2162.5	2164.5
10°	2148.4	2134.3	2146.4	2146.4	2144.4
12.5°	2118.3	2106.2	2120.3	2120.3	2122.3
15°	2084.1	2074.0	2088.1	2094.1	2096.2
17.5°	2041.9	2031.8	2049.9	2056.0	2062.0
20°	1993.7	1989.6	2007.7	2013.8	2021.8
22.5°	1939.4	1939.4	1957.5	1965.5	1977.6
25°	1885.1	1883.1	1905.2	1917.3	1925.3
27.5°	1820.8	1822.8	1851.0	1863.0	1873.1
30°	1752.5	1756.5	1788.7	1802.7	1816.8
32.5°	1680.1	1688.2	1724.4	1740.4	1754.5
35°	1605.8	1615.8	1656.0	1674.1	1690.2
37.5°	1531.4	1545.5	1587.7	1605.8	1623.9
40°	1453.0	1465.1	1513.3	1535.4	1557.5
42.5°	1372.6	1388.7	1437.0	1469.1	1495.2
45°	1290.2	1308.3	1360.6	1400.8	1430.9
47.5°	1207.9	1232.0	1282.2	1336.5	1362.6
50°	1125.5	1149.6	1205.8	1266.1	1292.3
52.5°	1041.0	1065.2	1129.5	1191.8	1219.9
55°	960.7	984.8	1053.1	1121.4	1149.6
57.5°	876.2	902.4	978.7	1049.1	1077.2
60°	793.8	820.0	902.4	976.7	1006.9
62.5°	713.5	741.6	828.0	906.4	936.5
65°	631.1	663.2	753.7	836.0	868.2
67.5°	550.7	586.8	681.3	767.7	801.9
70°	470.3	512.5	613.0	701.4	735.6
72.5°	391.9	438.1	544.6	633.1	651.2
75°	315.5	369.8	480.3	522.5	518.5
77.5°	243.2	303.5	408.0	416.0	428.1
80°	176.9	243.2	305.5	321.6	313.5
82.5°	116.6	182.9	219.1	211.0	209.0
85°	66.3	114.6	122.6	112.5	112.5
87.5°	28.1	46.2	40.2	30.1	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)