

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: P261328

Luminaire Tested: **24CZ-LD5-65-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261328
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6327.0 lumens
Efficiency: N/A
Efficacy: 123.5 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

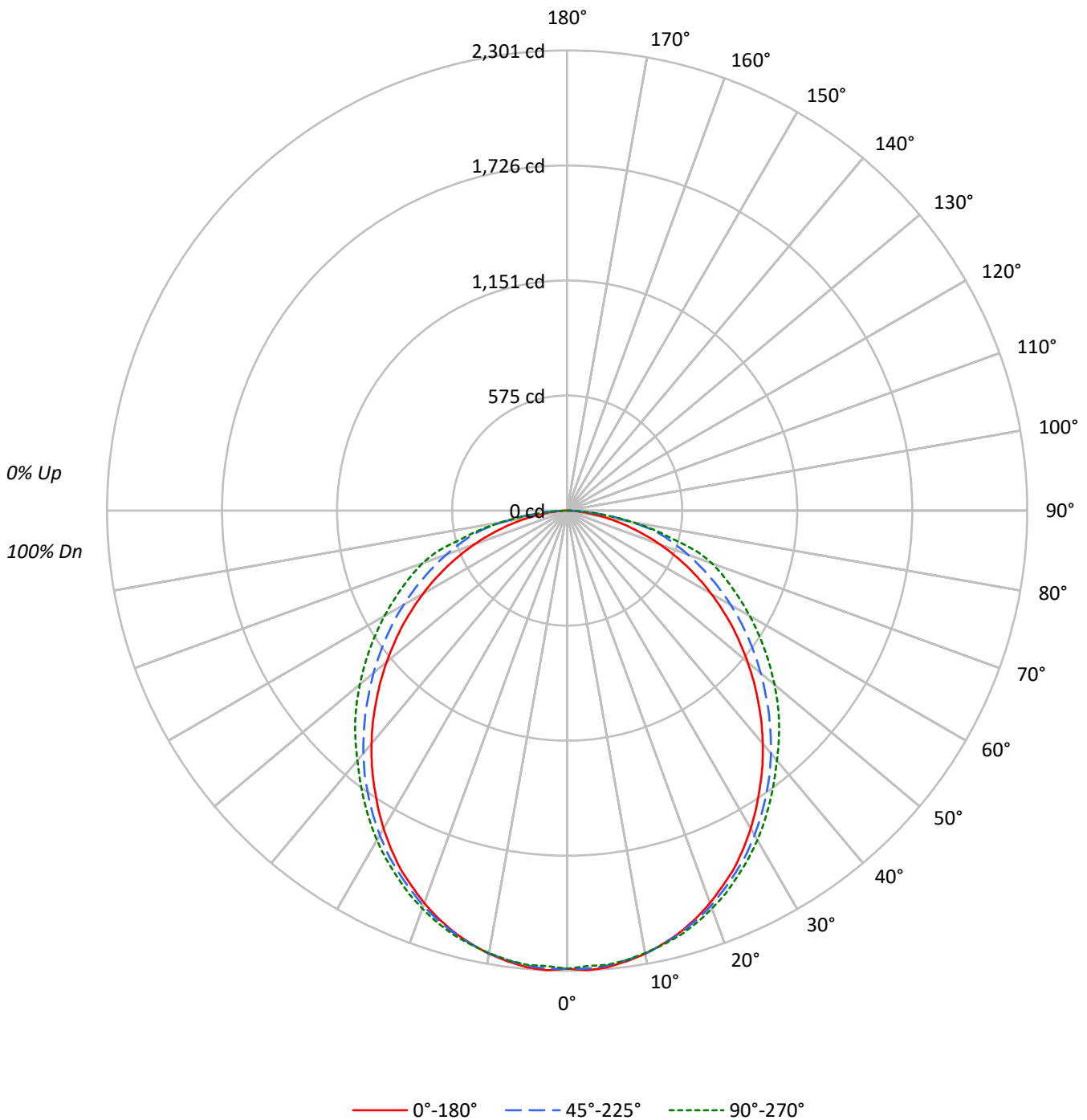
Input Watts (W): 51.243
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3082	3082	3082
5°	3096	3085	3079
10°	3075	3072	3069
15°	3041	3047	3059
20°	2990	3011	3032
25°	2932	2963	2994
30°	2852	2911	2957
35°	2763	2849	2908
40°	2673	2784	2866
45°	2572	2712	2852
50°	2468	2644	2834
55°	2361	2588	2825
60°	2238	2544	2838
65°	2104	2514	2896
70°	1938	2526	3031
75°	1718	2616	2823
80°	1436	2479	2545
85°	1073	1982	1820



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	3.4
10°-20°	615.9	9.7
20°-30°	917.8	14.5
30°-40°	1080.4	17.1
40°-50°	1098.0	17.4
50°-60°	987.1	15.6
60°-70°	779.9	12.3
70°-80°	494.8	7.8
80°-90°	136.5	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°	1750.3	27.7
0°-40°	2830.7	44.7
0°-60°	4915.8	77.7
0°-90°	6327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2290	2290	2290	2290	2290	
5°	2293	2274	2284	2280	2280	217
15°	2183	2173	2187	2194	2196	615
25°	1975	1973	1996	2008	2017	908
35°	1682	1693	1735	1754	1770	1052
45°	1352	1370	1425	1467	1499	1043
55°	1006	1032	1103	1175	1204	899
65°	661	695	790	876	910	655
75°	330	387	503	547	543	352
85°	70	120	128	118	118	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2290.5	2290.5	2290.5	2290.5	2290.5
2.5°	2301.0	2284.2	2292.6	2288.4	2280.0
5°	2292.6	2273.6	2284.2	2280.0	2280.0
7.5°	2273.6	2258.9	2267.3	2265.2	2267.3
10°	2250.5	2235.8	2248.4	2248.4	2246.3
12.5°	2218.9	2206.3	2221.0	2221.0	2223.1
15°	2183.1	2172.6	2187.3	2193.6	2195.8
17.5°	2138.9	2128.4	2147.3	2153.7	2160.0
20°	2088.4	2084.2	2103.1	2109.4	2117.9
22.5°	2031.5	2031.5	2050.5	2058.9	2071.5
25°	1974.7	1972.6	1995.8	2008.4	2016.8
27.5°	1907.3	1909.4	1938.9	1951.5	1962.1
30°	1835.8	1840.0	1873.7	1888.4	1903.1
32.5°	1760.0	1768.4	1806.3	1823.1	1837.9
35°	1682.1	1692.6	1734.7	1753.7	1770.5
37.5°	1604.2	1618.9	1663.1	1682.1	1701.0
40°	1522.1	1534.7	1585.2	1608.4	1631.6
42.5°	1437.9	1454.7	1505.2	1538.9	1566.3
45°	1351.6	1370.5	1425.2	1467.3	1498.9
47.5°	1265.2	1290.5	1343.1	1400.0	1427.3
50°	1178.9	1204.2	1263.1	1326.3	1353.7
52.5°	1090.5	1115.8	1183.1	1248.4	1277.9
55°	1006.3	1031.6	1103.1	1174.7	1204.2
57.5°	917.9	945.2	1025.2	1098.9	1128.4
60°	831.6	858.9	945.2	1023.1	1054.7
62.5°	747.4	776.8	867.4	949.5	981.0
65°	661.0	694.7	789.5	875.8	909.5
67.5°	576.8	614.7	713.7	804.2	840.0
70°	492.6	536.8	642.1	734.7	770.5
72.5°	410.5	458.9	570.5	663.1	682.1
75°	330.5	387.4	503.2	547.4	543.1
77.5°	254.7	317.9	427.4	435.8	448.4
80°	185.3	254.7	320.0	336.8	328.4
82.5°	122.1	191.6	229.5	221.0	218.9
85°	69.5	120.0	128.4	117.9	117.9
87.5°	29.5	48.4	42.1	31.6	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)