

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: P276261

Luminaire Tested: **24CZ2-75HE-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75HE-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6298.5 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

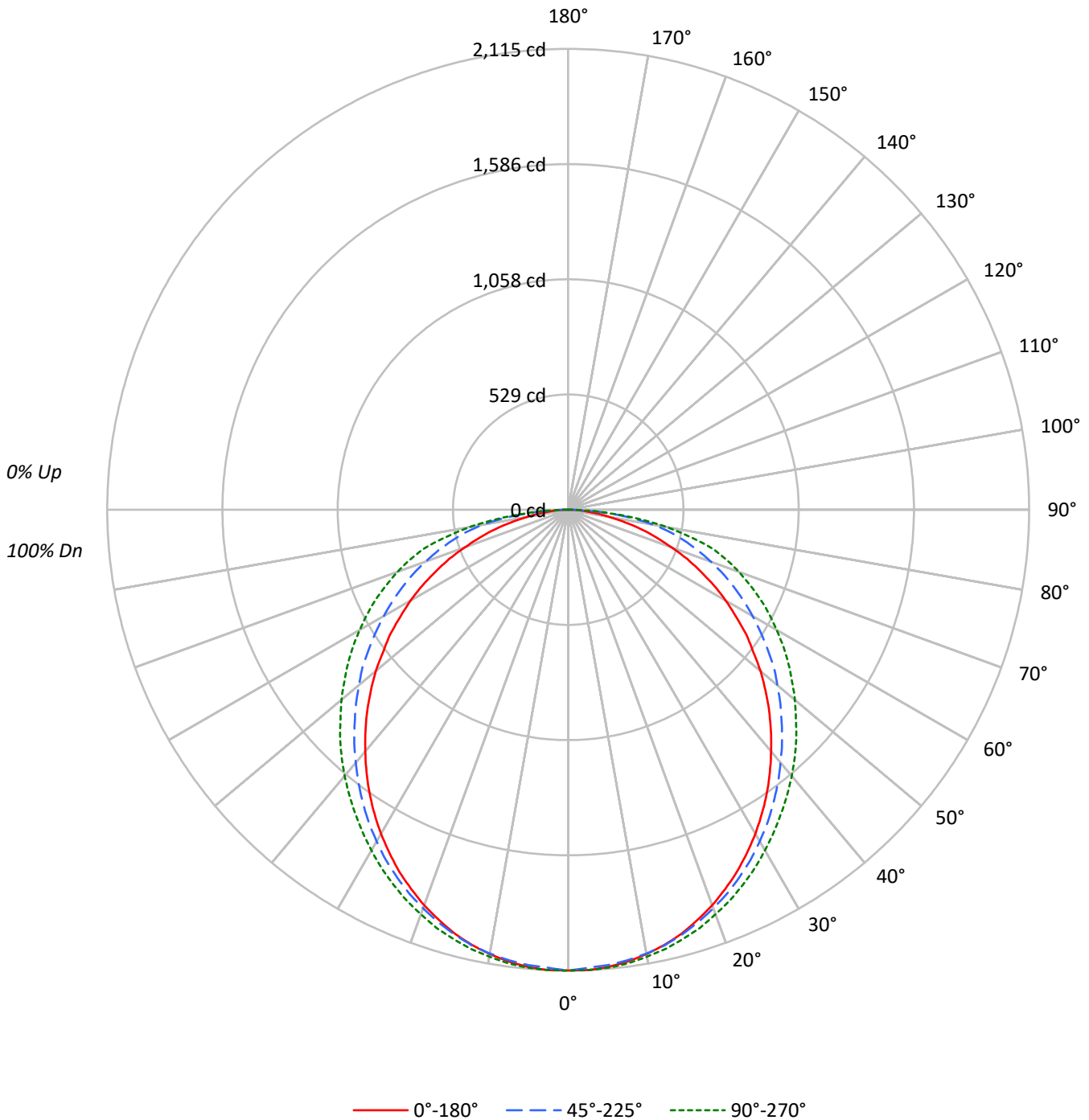
Input Watts (W): 59.055
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2845	2845	2845
5°	2845	2833	2851
10°	2829	2826	2846
15°	2805	2811	2840
20°	2766	2787	2829
25°	2721	2762	2818
30°	2668	2730	2805
35°	2610	2697	2797
40°	2544	2662	2802
45°	2480	2636	2816
50°	2411	2622	2842
55°	2337	2618	2894
60°	2246	2630	2970
65°	2128	2670	3099
70°	1976	2737	3275
75°	1803	2874	3552
80°	1482	3095	3551
85°	1136	2856	3051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	3.2
10°-20°	571.0	9.1
20°-30°	859.2	13.6
30°-40°	1029.7	16.3
40°-50°	1073.1	17.0
50°-60°	998.4	15.9
60°-70°	822.3	13.1
70°-80°	560.0	8.9
80°-90°	184.9	2.9
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°	1630.2	25.9
0°-40°	2659.9	42.2
0°-60°	4731.3	75.1
0°-90°	6298.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6298.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2115	2115	2115	2115	2115	
5°	2106	2106	2098	2108	2110	200
15°	2014	2016	2018	2037	2039	567
25°	1833	1841	1860	1892	1898	844
35°	1589	1608	1642	1686	1703	993
45°	1303	1331	1385	1455	1480	1005
55°	996	1030	1116	1204	1234	888
65°	668	725	839	938	973	664
75°	347	425	553	652	683	366
85°	74	143	185	198	198	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2114.7	2114.7	2114.7	2114.7	2114.7
2.5°	2114.7	2114.7	2104.2	2114.7	2114.7
5°	2106.3	2106.3	2097.9	2108.4	2110.5
7.5°	2091.6	2093.7	2085.3	2097.9	2100.0
10°	2070.5	2072.6	2068.4	2081.1	2083.2
12.5°	2045.3	2047.4	2047.4	2062.1	2064.2
15°	2013.8	2015.9	2018.0	2036.9	2039.0
17.5°	1973.8	1980.2	1984.4	2007.5	2011.7
20°	1931.8	1938.1	1946.5	1971.7	1976.0
22.5°	1883.5	1891.9	1906.6	1933.9	1940.2
25°	1833.0	1841.4	1860.3	1891.9	1898.2
27.5°	1776.3	1788.9	1812.0	1845.6	1854.0
30°	1717.4	1730.0	1757.3	1793.1	1805.7
32.5°	1654.3	1671.2	1702.7	1742.6	1755.2
35°	1589.2	1608.1	1641.7	1685.9	1702.7
37.5°	1519.8	1540.8	1580.8	1629.1	1650.1
40°	1448.3	1473.6	1515.6	1572.4	1595.5
42.5°	1376.9	1400.0	1452.5	1513.5	1538.7
45°	1303.3	1330.6	1385.3	1454.6	1479.9
47.5°	1227.6	1254.9	1320.1	1393.7	1416.8
50°	1151.9	1179.3	1252.8	1330.6	1357.9
52.5°	1070.0	1105.7	1189.8	1267.6	1294.9
55°	996.4	1030.0	1116.2	1204.5	1233.9
57.5°	912.3	952.2	1046.8	1139.3	1170.9
60°	834.5	876.6	977.5	1072.1	1103.6
62.5°	754.6	800.9	908.1	1004.8	1040.5
65°	668.5	725.2	838.7	937.5	973.3
67.5°	590.7	649.5	769.4	870.3	901.8
70°	502.4	573.9	695.8	796.7	832.4
72.5°	426.7	498.2	626.4	725.2	761.0
75°	346.8	424.6	552.8	651.6	683.2
77.5°	267.0	353.1	481.4	557.1	567.6
80°	191.3	281.7	399.4	443.5	458.3
82.5°	134.5	216.5	294.3	323.7	332.1
85°	73.6	142.9	185.0	197.6	197.6
87.5°	31.5	61.0	73.6	75.7	77.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)