

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: P276245

Luminaire Tested: **24CZ2-65HE-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276245
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: 24CZ2-65HE-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5715.7 lumens
Efficiency: N/A
Efficacy: 114.2 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

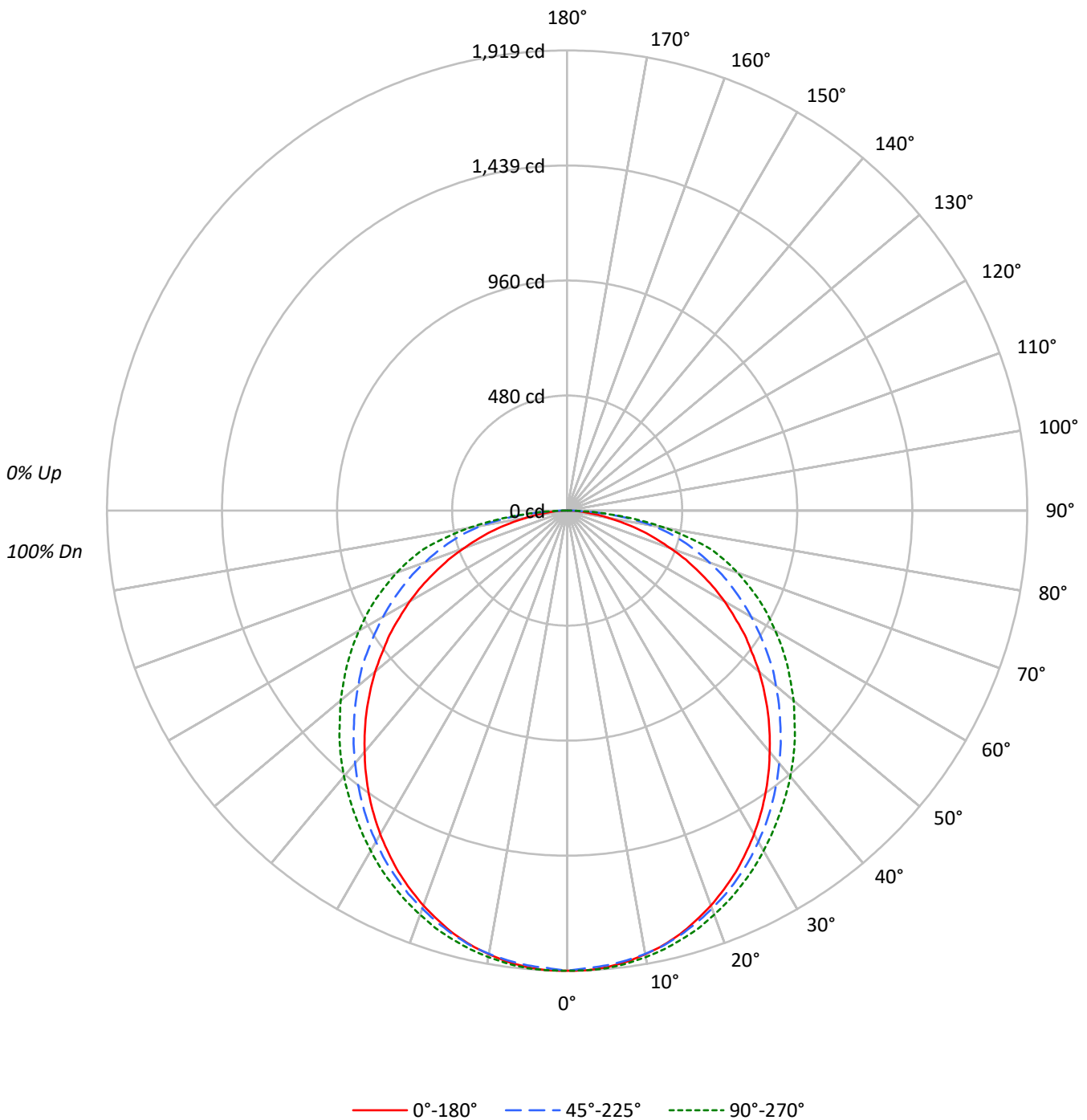
Input Watts (W): 50.034
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2582	2582	2582
5°	2582	2571	2587
10°	2567	2565	2583
15°	2546	2551	2578
20°	2510	2529	2567
25°	2469	2506	2557
30°	2421	2478	2546
35°	2369	2447	2538
40°	2308	2416	2543
45°	2250	2392	2555
50°	2188	2380	2579
55°	2121	2376	2627
60°	2038	2387	2695
65°	1931	2423	2812
70°	1793	2484	2972
75°	1637	2608	3223
80°	1345	2808	3223
85°	1031	2592	2768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	3.2
10°-20°	518.2	9.1
20°-30°	779.7	13.6
30°-40°	934.4	16.3
40°-50°	973.8	17.0
50°-60°	906.0	15.9
60°-70°	746.2	13.1
70°-80°	508.2	8.9
80°-90°	167.8	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°	1479.4	25.9
0°-40°	2413.8	42.2
0°-60°	4293.6	75.1
0°-90°	5715.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5715.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1919	1919	1919	1919	1919	
5°	1911	1911	1904	1913	1915	181
15°	1828	1829	1831	1848	1850	515
25°	1663	1671	1688	1717	1723	766
35°	1442	1459	1490	1530	1545	901
45°	1183	1208	1257	1320	1343	912
55°	904	935	1013	1093	1120	806
65°	607	658	761	851	883	602
75°	315	385	502	591	620	332
85°	67	130	168	179	179	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1919.0	1919.0	1919.0	1919.0	1919.0
2.5°	1919.0	1919.0	1909.5	1919.0	1919.0
5°	1911.4	1911.4	1903.8	1913.3	1915.2
7.5°	1898.1	1900.0	1892.3	1903.8	1905.7
10°	1879.0	1880.9	1877.1	1888.5	1890.4
12.5°	1856.1	1858.0	1858.0	1871.3	1873.3
15°	1827.5	1829.4	1831.3	1848.5	1850.4
17.5°	1791.2	1797.0	1800.8	1821.7	1825.6
20°	1753.1	1758.8	1766.4	1789.3	1793.1
22.5°	1709.2	1716.8	1730.2	1755.0	1760.7
25°	1663.4	1671.1	1688.2	1716.8	1722.6
27.5°	1611.9	1623.4	1644.3	1674.9	1682.5
30°	1558.5	1569.9	1594.7	1627.2	1638.6
32.5°	1501.3	1516.5	1545.1	1581.4	1592.8
35°	1442.1	1459.3	1489.8	1529.9	1545.1
37.5°	1379.2	1398.3	1434.5	1478.4	1497.5
40°	1314.3	1337.2	1375.4	1426.9	1447.9
42.5°	1249.5	1270.5	1318.1	1373.5	1396.4
45°	1182.7	1207.5	1257.1	1320.1	1342.9
47.5°	1114.0	1138.8	1198.0	1264.7	1285.7
50°	1045.4	1070.2	1136.9	1207.5	1232.3
52.5°	971.0	1003.4	1079.7	1150.3	1175.1
55°	904.2	934.7	1012.9	1093.0	1119.8
57.5°	827.9	864.1	950.0	1033.9	1062.5
60°	757.3	795.5	887.0	972.9	1001.5
62.5°	684.8	726.8	824.1	911.8	944.3
65°	606.6	658.1	761.1	850.8	883.2
67.5°	536.0	589.4	698.2	789.7	818.4
70°	455.9	520.8	631.4	723.0	755.4
72.5°	387.2	452.1	568.5	658.1	690.5
75°	314.8	385.3	501.7	591.4	620.0
77.5°	242.3	320.5	436.8	505.5	515.0
80°	173.6	255.6	362.4	402.5	415.9
82.5°	122.1	196.5	267.1	293.8	301.4
85°	66.8	129.7	167.9	179.3	179.3
87.5°	28.6	55.3	66.8	68.7	70.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)