

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: P276106

Luminaire Tested: **24CZ2-65HE-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276106
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-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5837.8 lumens
Efficiency: N/A
Efficacy: 120.3 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

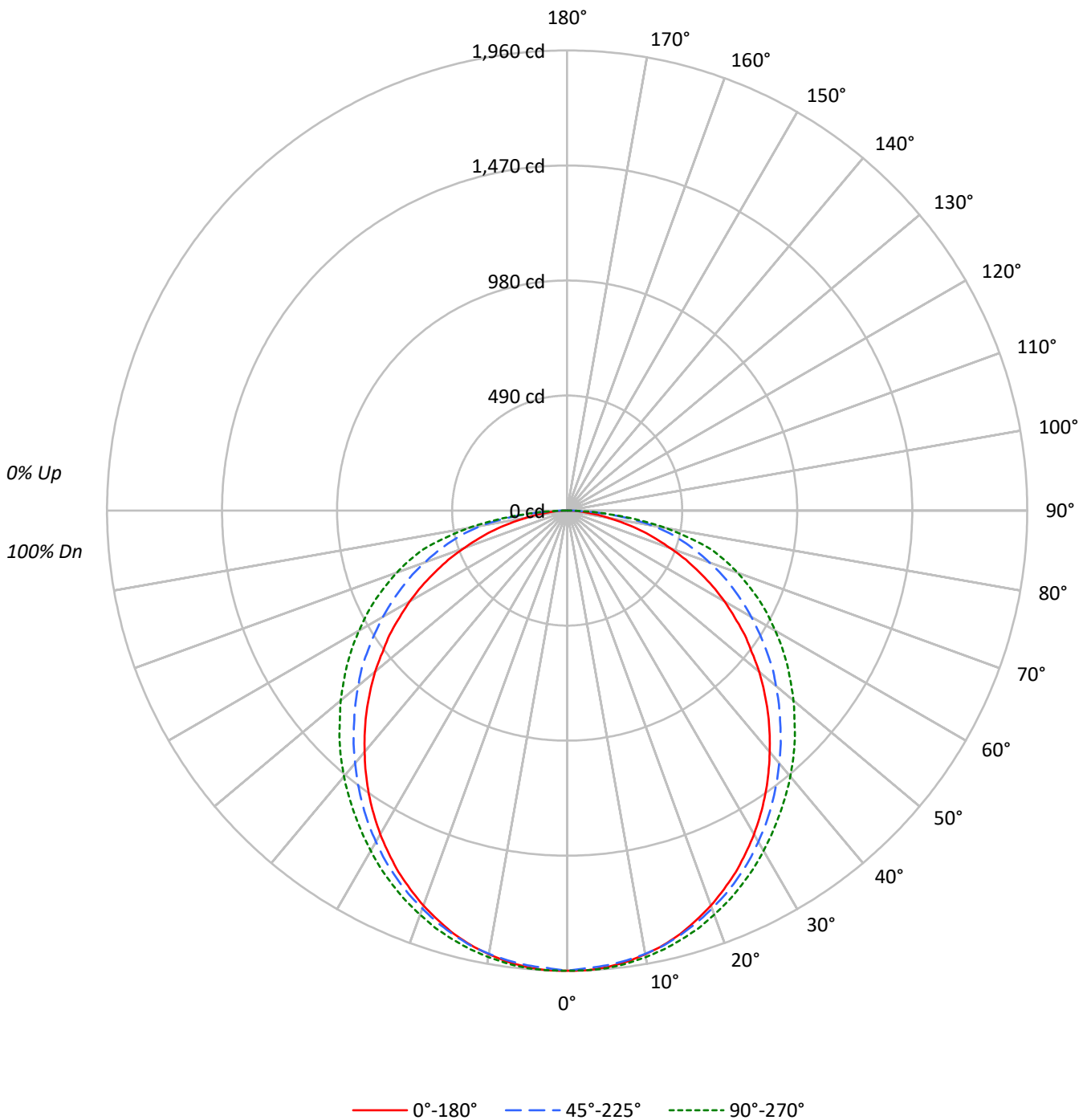
Input Watts (W): 48.546
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2637	2637	2637
5°	2637	2626	2642
10°	2622	2619	2638
15°	2600	2605	2633
20°	2564	2583	2622
25°	2522	2560	2612
30°	2473	2531	2600
35°	2419	2499	2592
40°	2358	2467	2597
45°	2299	2443	2610
50°	2235	2431	2635
55°	2166	2427	2683
60°	2081	2438	2753
65°	1973	2475	2872
70°	1832	2537	3035
75°	1671	2664	3292
80°	1374	2868	3291
85°	1053	2648	2827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	3.2
10°-20°	529.2	9.1
20°-30°	796.4	13.6
30°-40°	954.4	16.3
40°-50°	994.6	17.0
50°-60°	925.3	15.9
60°-70°	762.1	13.1
70°-80°	519.0	8.9
80°-90°	171.4	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°	1511.0	25.9
0°-40°	2465.3	42.2
0°-60°	4385.2	75.1
0°-90°	5837.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5837.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1960	1960	1960	1960	1960	
5°	1952	1952	1944	1954	1956	185
15°	1866	1868	1870	1888	1890	526
25°	1699	1707	1724	1754	1759	782
35°	1473	1490	1522	1563	1578	921
45°	1208	1233	1284	1348	1372	932
55°	924	955	1035	1116	1144	823
65°	620	672	777	869	902	615
75°	322	394	512	604	633	339
85°	68	132	172	183	183	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1960.0	1960.0	1960.0	1960.0	1960.0
2.5°	1960.0	1960.0	1950.3	1960.0	1960.0
5°	1952.2	1952.2	1944.4	1954.2	1956.1
7.5°	1938.6	1940.5	1932.7	1944.4	1946.4
10°	1919.1	1921.0	1917.1	1928.8	1930.8
12.5°	1895.7	1897.7	1897.7	1911.3	1913.2
15°	1866.5	1868.4	1870.4	1887.9	1889.9
17.5°	1829.5	1835.3	1839.2	1860.6	1864.5
20°	1790.5	1796.4	1804.1	1827.5	1831.4
22.5°	1745.7	1753.5	1767.1	1792.5	1798.3
25°	1698.9	1706.7	1724.3	1753.5	1759.3
27.5°	1646.3	1658.0	1679.5	1710.6	1718.4
30°	1591.8	1603.5	1628.8	1661.9	1673.6
32.5°	1533.3	1548.9	1578.1	1615.2	1626.8
35°	1472.9	1490.5	1521.6	1562.6	1578.1
37.5°	1408.6	1428.1	1465.1	1509.9	1529.4
40°	1342.4	1365.8	1404.7	1457.3	1478.8
42.5°	1276.1	1297.6	1346.3	1402.8	1426.2
45°	1208.0	1233.3	1283.9	1348.2	1371.6
47.5°	1137.8	1163.1	1223.5	1291.7	1313.2
50°	1067.7	1093.0	1161.2	1233.3	1258.6
52.5°	991.7	1024.8	1102.7	1174.8	1200.2
55°	923.5	954.7	1034.6	1116.4	1143.7
57.5°	845.6	882.6	970.3	1056.0	1085.2
60°	773.5	812.4	906.0	993.6	1022.9
62.5°	699.4	742.3	841.7	931.3	964.4
65°	619.6	672.2	777.4	869.0	902.1
67.5°	547.5	602.0	713.1	806.6	835.8
70°	465.6	531.9	644.9	738.4	771.5
72.5°	395.5	461.8	580.6	672.2	705.3
75°	321.5	393.6	512.4	604.0	633.2
77.5°	247.4	327.3	446.2	516.3	526.0
80°	177.3	261.1	370.2	411.1	424.7
82.5°	124.7	200.7	272.8	300.0	307.8
85°	68.2	132.5	171.5	183.1	183.1
87.5°	29.2	56.5	68.2	70.1	72.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)