

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: P276112

Luminaire Tested: **24CZ2-65HE-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276112
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-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6446.1 lumens
Efficiency: N/A
Efficacy: 128.1 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

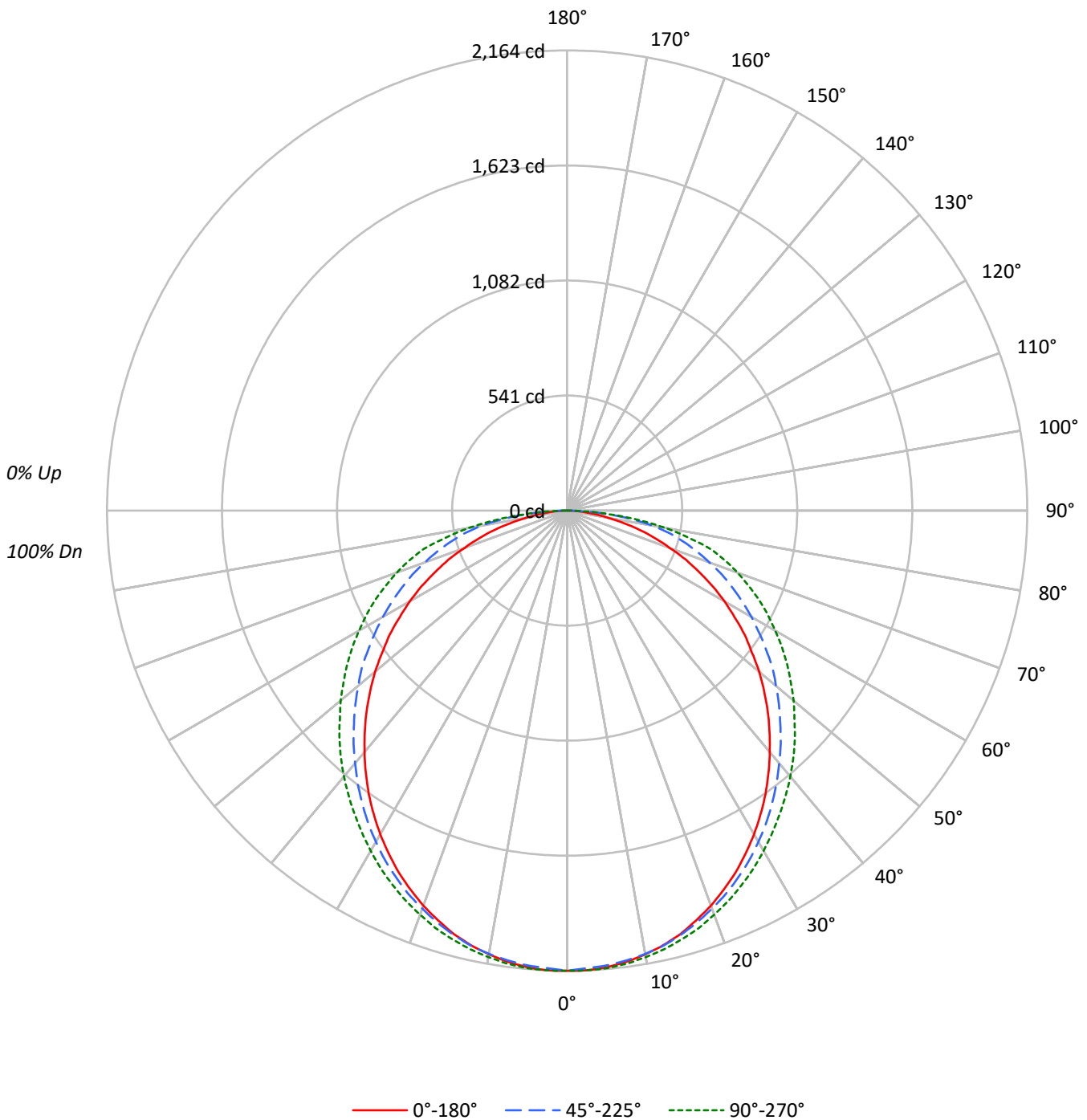
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2912	2912	2912
5°	2911	2900	2917
10°	2895	2892	2913
15°	2871	2877	2907
20°	2831	2852	2895
25°	2785	2826	2884
30°	2731	2794	2871
35°	2671	2760	2862
40°	2604	2724	2868
45°	2538	2698	2882
50°	2468	2684	2909
55°	2392	2680	2962
60°	2298	2692	3039
65°	2178	2733	3171
70°	2023	2801	3351
75°	1845	2941	3635
80°	1517	3168	3634
85°	1162	2922	3122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	3.2
10°-20°	584.4	9.1
20°-30°	879.4	13.6
30°-40°	1053.8	16.3
40°-50°	1098.2	17.0
50°-60°	1021.8	15.9
60°-70°	841.5	13.1
70°-80°	573.1	8.9
80°-90°	189.2	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°	1668.4	25.9
0°-40°	2722.2	42.2
0°-60°	4842.2	75.1
0°-90°	6446.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6446.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2164	2164	2164	2164	2164	
5°	2156	2156	2147	2158	2160	205
15°	2061	2063	2065	2085	2087	581
25°	1876	1885	1904	1936	1943	864
35°	1626	1646	1680	1725	1743	1017
45°	1334	1362	1418	1489	1514	1029
55°	1020	1054	1142	1233	1263	909
65°	684	742	858	960	996	679
75°	355	435	566	667	699	374
85°	75	146	189	202	202	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2164.2	2164.2	2153.5	2164.2	2164.2
5°	2155.6	2155.6	2147.0	2157.8	2159.9
7.5°	2140.6	2142.7	2134.1	2147.0	2149.2
10°	2119.1	2121.2	2116.9	2129.8	2132.0
12.5°	2093.2	2095.4	2095.4	2110.5	2112.6
15°	2061.0	2063.1	2065.3	2084.6	2086.8
17.5°	2020.1	2026.6	2030.9	2054.5	2058.8
20°	1977.1	1983.5	1992.1	2017.9	2022.2
22.5°	1927.6	1936.2	1951.3	1979.2	1985.7
25°	1876.0	1884.6	1903.9	1936.2	1942.6
27.5°	1817.9	1830.8	1854.4	1888.9	1897.5
30°	1757.6	1770.5	1798.5	1835.1	1848.0
32.5°	1693.1	1710.3	1742.6	1783.5	1796.4
35°	1626.4	1645.8	1680.2	1725.4	1742.6
37.5°	1555.4	1576.9	1617.8	1667.3	1688.8
40°	1482.3	1508.1	1551.1	1609.2	1632.9
42.5°	1409.1	1432.8	1486.6	1549.0	1574.8
45°	1333.8	1361.8	1417.7	1488.7	1514.5
47.5°	1256.4	1284.3	1351.0	1426.3	1450.0
50°	1178.9	1206.9	1282.2	1361.8	1389.8
52.5°	1095.0	1131.6	1217.7	1297.3	1325.2
55°	1019.7	1054.2	1142.4	1232.7	1262.8
57.5°	933.7	974.6	1071.4	1166.0	1198.3
60°	854.1	897.1	1000.4	1097.2	1129.4
62.5°	772.3	819.7	929.4	1028.3	1064.9
65°	684.1	742.2	858.4	959.5	996.1
67.5°	604.5	664.8	787.4	890.7	922.9
70°	514.2	587.3	712.1	815.4	851.9
72.5°	436.7	509.9	641.1	742.2	778.8
75°	355.0	434.6	565.8	666.9	699.2
77.5°	273.2	361.4	492.7	570.1	580.9
80°	195.8	288.3	408.8	453.9	469.0
82.5°	137.7	221.6	301.2	331.3	339.9
85°	75.3	146.3	189.3	202.2	202.2
87.5°	32.3	62.4	75.3	77.4	79.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)