

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: P276111

Luminaire Tested: **24CZ2-65HE-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276111
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-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6429.0 lumens
Efficiency: N/A
Efficacy: 127.8 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

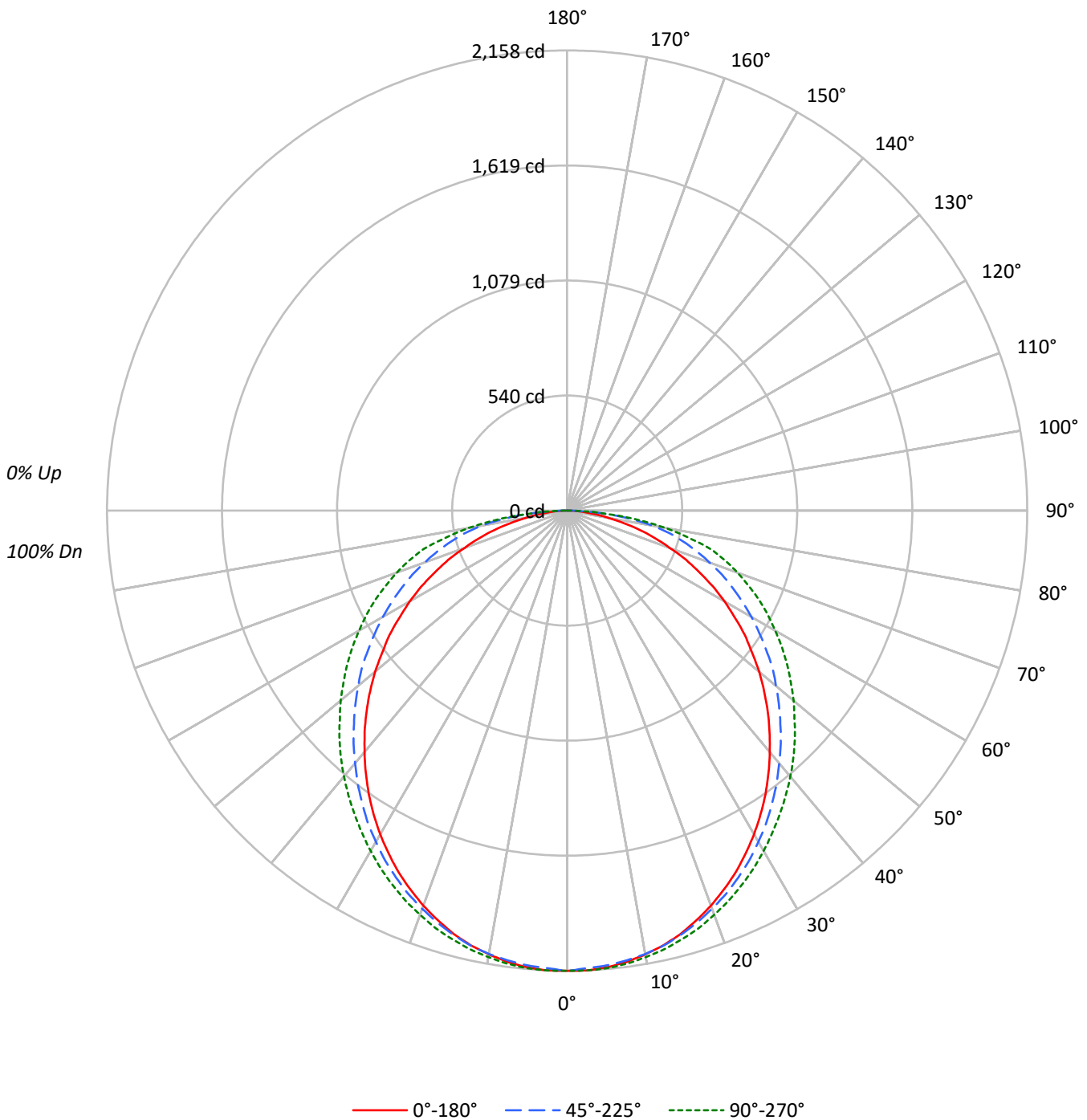
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2904	2904	2904
5°	2904	2892	2910
10°	2888	2885	2905
15°	2863	2869	2899
20°	2823	2845	2888
25°	2778	2819	2876
30°	2724	2787	2864
35°	2664	2752	2855
40°	2597	2717	2860
45°	2531	2691	2874
50°	2461	2677	2901
55°	2386	2673	2955
60°	2292	2685	3031
65°	2172	2726	3163
70°	2017	2794	3343
75°	1840	2934	3625
80°	1513	3159	3625
85°	1159	2915	3114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	3.2
10°-20°	582.8	9.1
20°-30°	877.0	13.6
30°-40°	1051.0	16.3
40°-50°	1095.3	17.0
50°-60°	1019.0	15.9
60°-70°	839.3	13.1
70°-80°	571.6	8.9
80°-90°	188.7	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°	1664.0	25.9
0°-40°	2715.0	42.2
0°-60°	4829.4	75.1
0°-90°	6429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2158	2158	2158	2158	2158	
5°	2150	2150	2141	2152	2154	204
15°	2056	2058	2060	2079	2081	579
25°	1871	1880	1899	1931	1938	861
35°	1622	1641	1676	1721	1738	1014
45°	1330	1358	1414	1485	1510	1026
55°	1017	1051	1139	1230	1260	907
65°	682	740	856	957	993	677
75°	354	433	564	665	697	373
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°	2158.5	2158.5	2158.5	2158.5	2158.5
2.5°	2158.5	2158.5	2147.8	2158.5	2158.5
5°	2149.9	2149.9	2141.4	2152.1	2154.2
7.5°	2134.9	2137.1	2128.5	2141.4	2143.5
10°	2113.5	2115.6	2111.3	2124.2	2126.3
12.5°	2087.7	2089.9	2089.9	2104.9	2107.0
15°	2055.5	2057.7	2059.8	2079.1	2081.3
17.5°	2014.8	2021.2	2025.5	2049.1	2053.4
20°	1971.8	1978.3	1986.9	2012.6	2016.9
22.5°	1922.5	1931.1	1946.1	1974.0	1980.4
25°	1871.0	1879.6	1898.9	1931.1	1937.5
27.5°	1813.1	1825.9	1849.5	1883.9	1892.5
30°	1753.0	1765.9	1793.8	1830.2	1843.1
32.5°	1688.6	1705.8	1738.0	1778.7	1791.6
35°	1622.1	1641.4	1675.7	1720.8	1738.0
37.5°	1551.3	1572.8	1613.5	1662.9	1684.3
40°	1478.3	1504.1	1547.0	1604.9	1628.5
42.5°	1405.4	1429.0	1482.6	1544.9	1570.6
45°	1330.3	1358.2	1414.0	1484.8	1510.5
47.5°	1253.1	1281.0	1347.5	1422.6	1446.2
50°	1175.8	1203.7	1278.8	1358.2	1386.1
52.5°	1092.1	1128.6	1214.4	1293.8	1321.7
55°	1017.0	1051.4	1139.3	1229.5	1259.5
57.5°	931.2	972.0	1068.5	1162.9	1195.1
60°	851.8	894.7	997.7	1094.3	1126.5
62.5°	770.3	817.5	926.9	1025.6	1062.1
65°	682.3	740.2	856.1	957.0	993.4
67.5°	602.9	663.0	785.3	888.3	920.5
70°	512.8	585.8	710.2	813.2	849.7
72.5°	435.6	508.5	639.4	740.2	776.7
75°	354.0	433.4	564.3	665.2	697.3
77.5°	272.5	360.5	491.4	568.6	579.3
80°	195.3	287.5	407.7	452.7	467.8
82.5°	137.3	221.0	300.4	330.4	339.0
85°	75.1	145.9	188.8	201.7	201.7
87.5°	32.2	62.2	75.1	77.2	79.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)