

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: P276526

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65HE-S-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6133.9 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

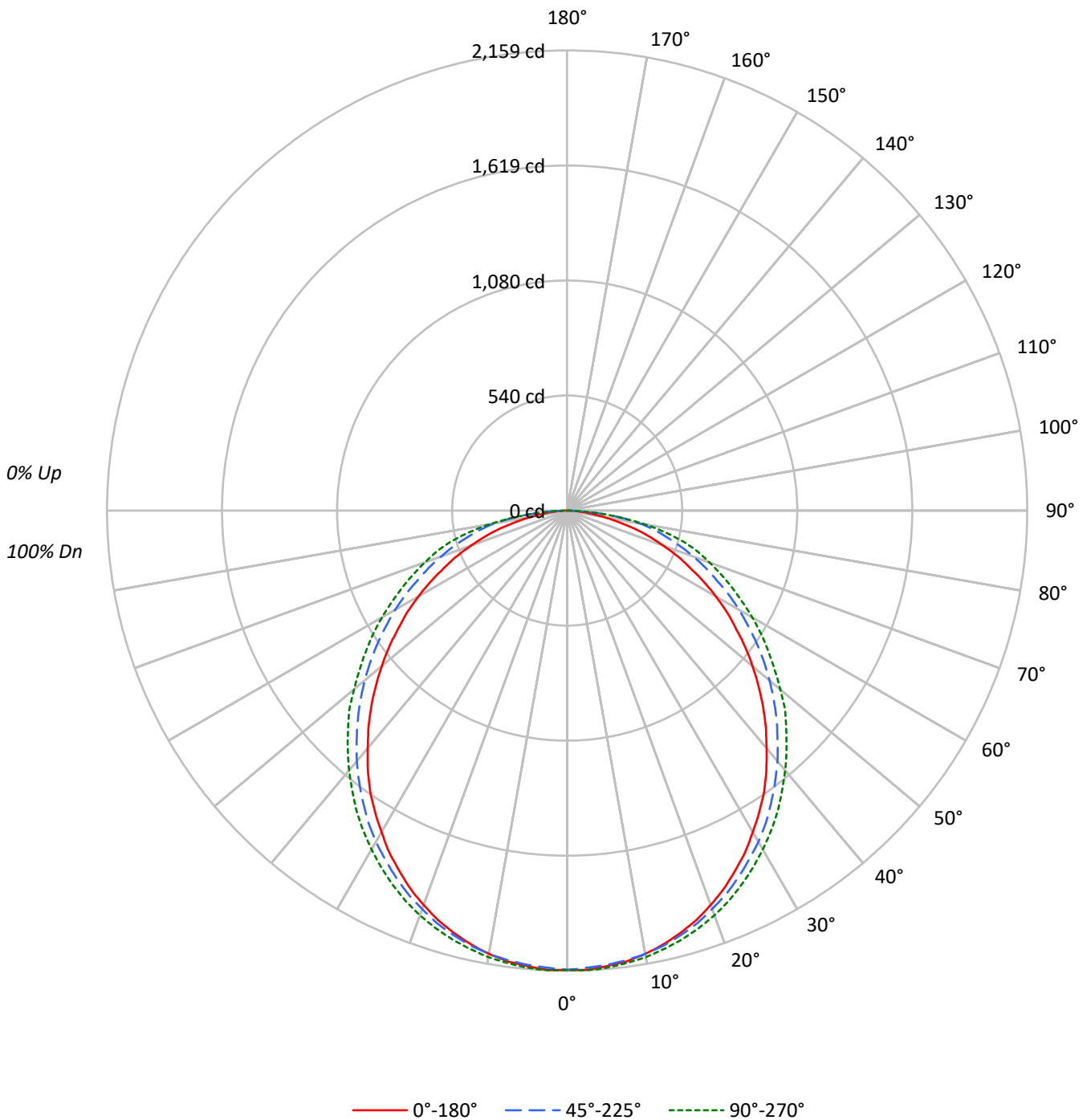
Input Watts (W): 48.546
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2899	2899	2899
5°	2897	2889	2908
10°	2886	2886	2907
15°	2858	2871	2901
20°	2820	2848	2893
25°	2768	2820	2875
30°	2706	2788	2852
35°	2647	2743	2829
40°	2556	2697	2796
45°	2473	2643	2766
50°	2378	2594	2732
55°	2271	2546	2706
60°	2165	2506	2700
65°	2028	2463	2717
70°	1878	2476	2790
75°	1681	2522	2948
80°	1359	2672	2883
85°	1022	2347	2286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	3.3
10°-20°	582.9	9.5
20°-30°	876.3	14.3
30°-40°	1043.8	17.0
40°-50°	1068.2	17.4
50°-60°	961.7	15.7
60°-70°	755.3	12.3
70°-80°	490.2	8.0
80°-90°	151.6	2.5
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°	1663.2	27.1
0°-40°	2706.9	44.1
0°-60°	4736.9	77.2
0°-90°	6133.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6133.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2155	2155	2155	2155	2155	
5°	2145	2149	2139	2151	2153	204
15°	2052	2058	2061	2079	2083	578
25°	1865	1880	1900	1931	1937	859
35°	1611	1631	1670	1711	1722	1005
45°	1300	1331	1389	1442	1454	1002
55°	968	1011	1085	1142	1153	868
65°	637	686	774	838	853	634
75°	323	386	485	551	567	342
85°	66	123	152	148	148	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2154.9	2154.9	2154.9	2154.9	2154.9
2.5°	2156.8	2156.8	2147.1	2156.8	2158.8
5°	2145.2	2149.0	2139.3	2151.0	2152.9
7.5°	2133.5	2133.5	2127.6	2139.3	2141.3
10°	2112.0	2114.0	2112.0	2125.7	2127.6
12.5°	2084.8	2088.6	2090.6	2104.2	2106.2
15°	2051.6	2057.5	2061.4	2078.9	2082.8
17.5°	2014.6	2020.5	2030.2	2049.7	2053.6
20°	1969.8	1977.6	1989.3	2014.6	2020.5
22.5°	1921.1	1928.9	1948.4	1971.7	1981.5
25°	1864.6	1880.2	1899.7	1930.8	1936.7
27.5°	1808.1	1821.7	1847.1	1880.2	1888.0
30°	1741.8	1763.3	1794.4	1827.6	1835.4
32.5°	1677.5	1699.0	1736.0	1771.1	1780.8
35°	1611.3	1630.8	1669.7	1710.7	1722.4
37.5°	1535.3	1560.6	1603.5	1644.4	1656.1
40°	1455.4	1486.6	1535.3	1578.2	1591.8
42.5°	1379.4	1412.6	1461.3	1508.0	1523.6
45°	1299.6	1330.7	1389.2	1441.8	1453.5
47.5°	1217.7	1252.8	1315.1	1367.8	1387.2
50°	1135.9	1172.9	1239.2	1293.7	1305.4
52.5°	1054.1	1093.0	1163.2	1221.6	1227.5
55°	968.3	1011.2	1085.2	1141.7	1153.4
57.5°	890.4	927.4	1007.3	1065.8	1079.4
60°	804.7	845.6	931.3	985.9	1003.4
62.5°	722.8	765.7	855.3	909.9	925.5
65°	637.1	685.8	773.5	837.8	853.4
67.5°	563.1	609.8	703.4	765.7	781.3
70°	477.3	530.0	629.3	693.6	709.2
72.5°	403.3	457.9	557.2	619.6	643.0
75°	323.4	385.8	485.1	551.4	567.0
77.5°	245.5	317.6	418.9	469.6	469.6
80°	175.4	251.3	344.9	368.2	372.1
82.5°	115.0	189.0	255.2	253.3	253.3
85°	66.2	122.7	152.0	148.1	148.1
87.5°	25.3	50.7	54.6	54.6	52.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)