

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: P276248

Luminaire Tested: **24CZ2-65HE-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276248
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-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5868.0 lumens
Efficiency: N/A
Efficacy: 114.5 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

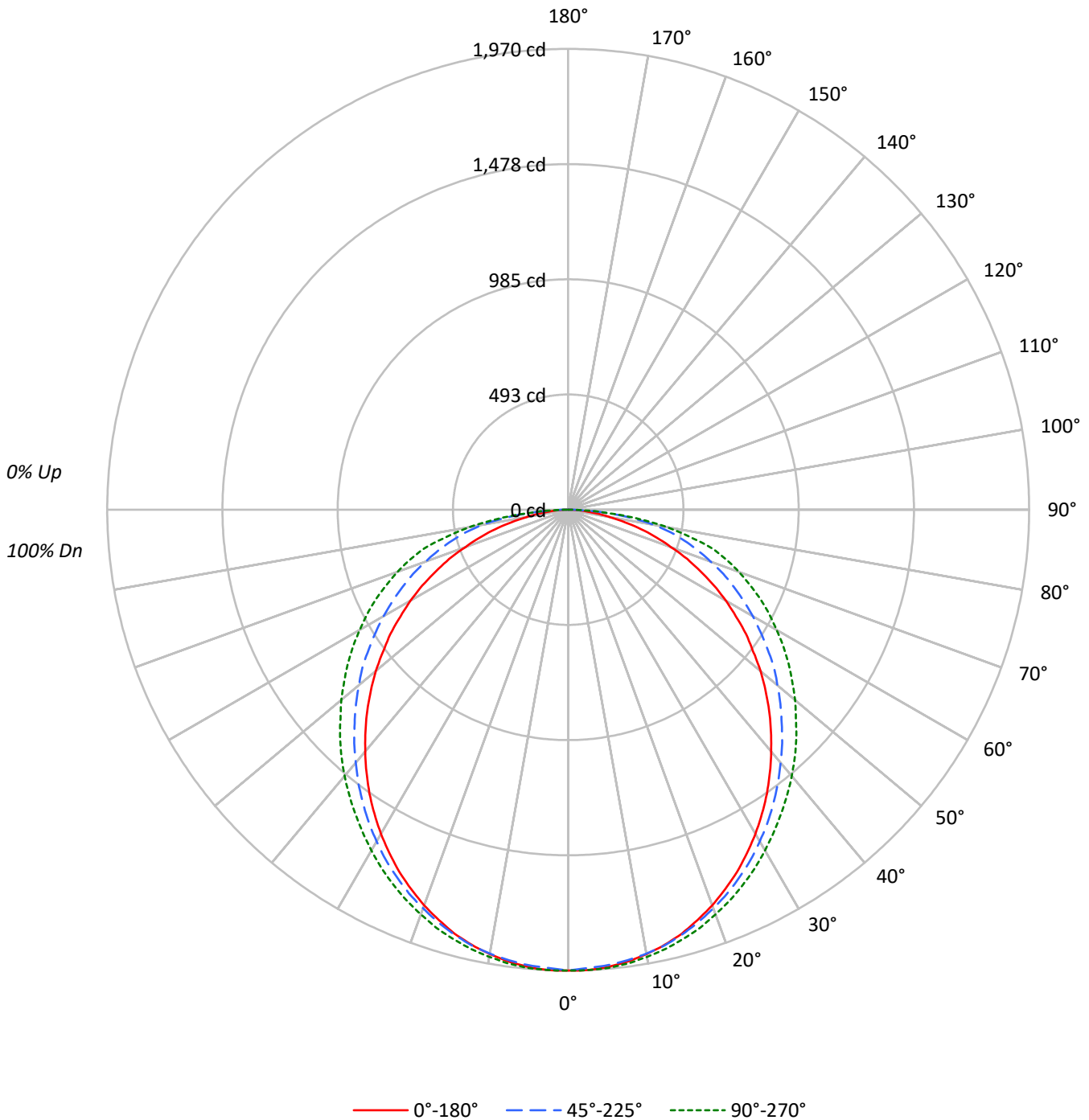
Input Watts (W): 51.243
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2651	2651	2651
5°	2650	2640	2656
10°	2635	2633	2652
15°	2613	2619	2646
20°	2577	2597	2636
25°	2535	2573	2625
30°	2486	2544	2614
35°	2432	2512	2606
40°	2370	2480	2611
45°	2310	2456	2623
50°	2246	2443	2648
55°	2178	2439	2697
60°	2092	2451	2767
65°	1983	2488	2887
70°	1841	2550	3051
75°	1680	2678	3309
80°	1381	2883	3308
85°	1057	2660	2842



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	3.2
10°-20°	532.0	9.1
20°-30°	800.5	13.6
30°-40°	959.3	16.3
40°-50°	999.7	17.0
50°-60°	930.1	15.9
60°-70°	766.1	13.1
70°-80°	521.7	8.9
80°-90°	172.2	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°	1518.8	25.9
0°-40°	2478.1	42.2
0°-60°	4408.0	75.1
0°-90°	5868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1970	1970	1970	1970	1970	
5°	1962	1962	1954	1964	1966	186
15°	1876	1878	1880	1898	1900	529
25°	1708	1716	1733	1763	1768	786
35°	1481	1498	1530	1571	1586	925
45°	1214	1240	1291	1355	1379	936
55°	928	960	1040	1122	1150	827
65°	623	676	781	874	907	618
75°	323	396	515	607	636	341
85°	68	133	172	184	184	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1970.2	1970.2	1970.2	1970.2	1970.2
2.5°	1970.2	1970.2	1960.4	1970.2	1970.2
5°	1962.3	1962.3	1954.5	1964.3	1966.3
7.5°	1948.6	1950.6	1942.8	1954.5	1956.5
10°	1929.0	1931.0	1927.1	1938.8	1940.8
12.5°	1905.5	1907.5	1907.5	1921.2	1923.2
15°	1876.2	1878.1	1880.1	1897.7	1899.7
17.5°	1839.0	1844.8	1848.8	1870.3	1874.2
20°	1799.8	1805.7	1813.5	1837.0	1840.9
22.5°	1754.7	1762.6	1776.3	1801.7	1807.6
25°	1707.7	1715.6	1733.2	1762.6	1768.5
27.5°	1654.9	1666.6	1688.2	1719.5	1727.3
30°	1600.0	1611.8	1637.2	1670.5	1682.3
32.5°	1541.3	1556.9	1586.3	1623.5	1635.3
35°	1480.6	1498.2	1529.5	1570.7	1586.3
37.5°	1415.9	1435.5	1472.7	1517.8	1537.4
40°	1349.4	1372.9	1412.0	1464.9	1486.4
42.5°	1282.8	1304.3	1353.3	1410.1	1433.6
45°	1214.2	1239.7	1290.6	1355.2	1378.7
47.5°	1143.7	1169.2	1229.9	1298.4	1320.0
50°	1073.2	1098.7	1167.2	1239.7	1265.1
52.5°	996.8	1030.1	1108.5	1180.9	1206.4
55°	928.3	959.6	1039.9	1122.2	1149.6
57.5°	850.0	887.2	975.3	1061.5	1090.8
60°	777.5	816.7	910.7	998.8	1028.2
62.5°	703.1	746.2	846.0	936.1	969.4
65°	622.8	675.7	781.4	873.5	906.7
67.5°	550.3	605.2	716.8	810.8	840.2
70°	468.1	534.6	648.2	742.2	775.5
72.5°	397.6	464.1	583.6	675.7	708.9
75°	323.1	395.6	515.1	607.1	636.5
77.5°	248.7	329.0	448.5	519.0	528.8
80°	178.2	262.4	372.1	413.2	426.9
82.5°	125.3	201.7	274.2	301.6	309.4
85°	68.5	133.2	172.3	184.1	184.1
87.5°	29.4	56.8	68.5	70.5	72.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)