

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: P275931

Luminaire Tested: **24CZ2-65HE-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275931
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-L83050-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6554.0 lumens
Efficiency: N/A
Efficacy: 127.7 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

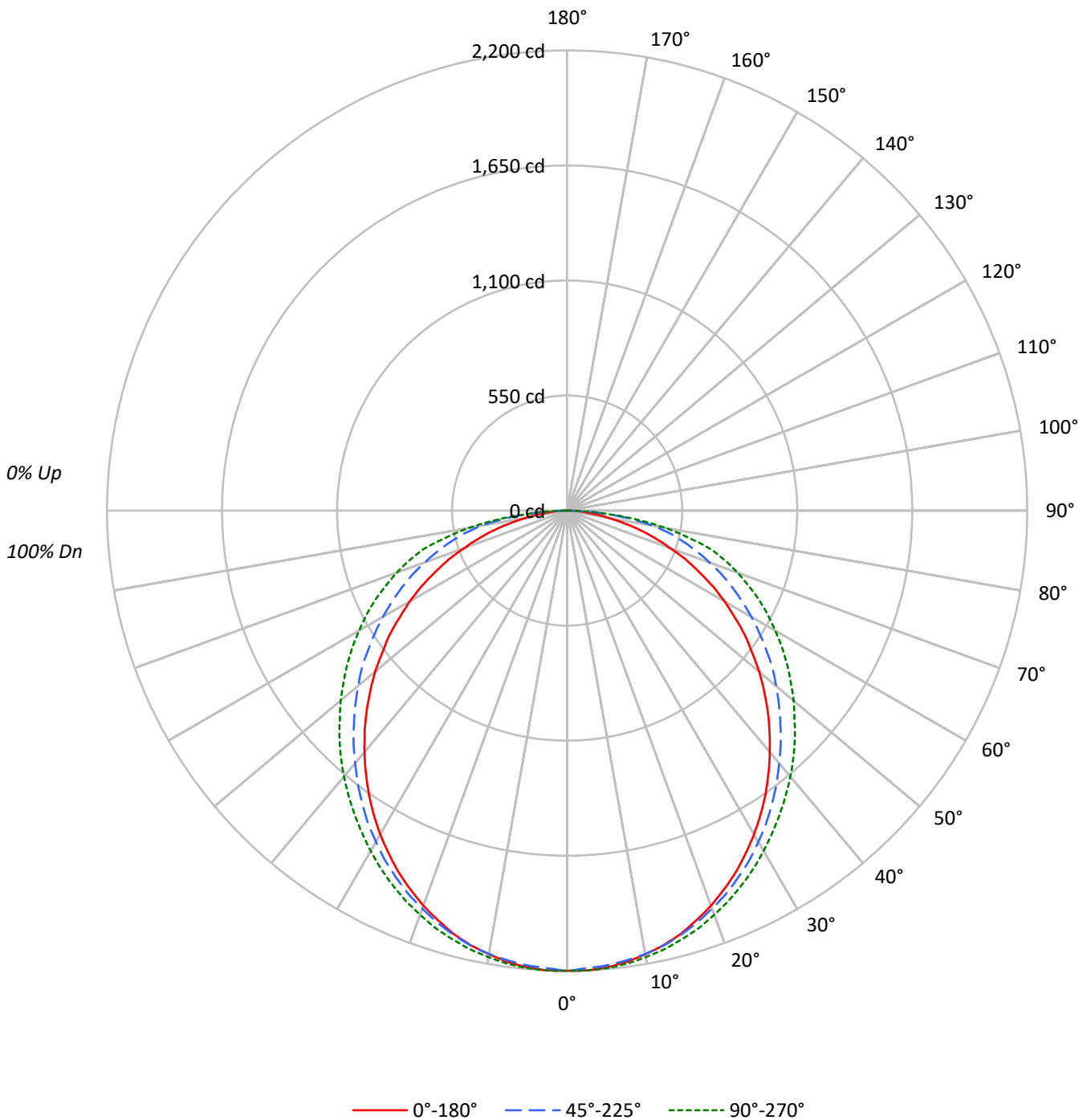
Input Watts (W): 51.336
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2961	2961	2961
5°	2960	2948	2966
10°	2944	2941	2962
15°	2919	2925	2955
20°	2878	2900	2944
25°	2832	2874	2932
30°	2777	2841	2919
35°	2716	2806	2910
40°	2647	2770	2916
45°	2581	2743	2930
50°	2509	2729	2958
55°	2432	2725	3012
60°	2337	2737	3090
65°	2215	2779	3224
70°	2057	2848	3408
75°	1876	2991	3696
80°	1542	3220	3694
85°	1183	2972	3174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.1	3.2
10°-20°	594.1	9.1
20°-30°	894.1	13.6
30°-40°	1071.5	16.3
40°-50°	1116.6	17.0
50°-60°	1038.9	15.9
60°-70°	855.6	13.1
70°-80°	582.7	8.9
80°-90°	192.4	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°	1696.3	25.9
0°-40°	2767.8	42.2
0°-60°	4923.3	75.1
0°-90°	6554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2200	2200	2200	2200	2200	
5°	2192	2192	2183	2194	2196	208
15°	2096	2098	2100	2120	2122	590
25°	1907	1916	1936	1969	1975	878
35°	1654	1673	1708	1754	1772	1034
45°	1356	1385	1442	1514	1540	1046
55°	1037	1072	1162	1253	1284	924
65°	696	755	873	976	1013	690
75°	361	442	575	678	711	381
85°	77	149	192	206	206	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2200.5	2200.5	2200.5	2200.5	2200.5
2.5°	2200.5	2200.5	2189.5	2200.5	2200.5
5°	2191.7	2191.7	2183.0	2193.9	2196.1
7.5°	2176.4	2178.6	2169.9	2183.0	2185.2
10°	2154.5	2156.7	2152.4	2165.5	2167.7
12.5°	2128.3	2130.5	2130.5	2145.8	2148.0
15°	2095.5	2097.7	2099.9	2119.6	2121.7
17.5°	2053.9	2060.5	2064.9	2088.9	2093.3
20°	2010.2	2016.7	2025.5	2051.7	2056.1
22.5°	1959.9	1968.6	1983.9	2012.4	2018.9
25°	1907.4	1916.1	1935.8	1968.6	1975.2
27.5°	1848.3	1861.4	1885.5	1920.5	1929.3
30°	1787.1	1800.2	1828.6	1865.8	1878.9
32.5°	1721.5	1738.9	1771.8	1813.3	1826.4
35°	1653.6	1673.3	1708.3	1754.3	1771.8
37.5°	1581.5	1603.3	1644.9	1695.2	1717.1
40°	1507.1	1533.3	1577.1	1636.1	1660.2
42.5°	1432.7	1456.8	1511.5	1574.9	1601.1
45°	1356.2	1384.6	1441.5	1513.7	1539.9
47.5°	1277.4	1305.9	1373.7	1450.2	1474.3
50°	1198.7	1227.1	1303.7	1384.6	1413.0
52.5°	1113.4	1150.6	1238.0	1319.0	1347.4
55°	1036.8	1071.8	1161.5	1253.4	1284.0
57.5°	949.3	990.9	1089.3	1185.5	1218.4
60°	868.4	912.1	1017.1	1115.6	1148.4
62.5°	785.3	833.4	944.9	1045.6	1082.7
65°	695.6	754.6	872.8	975.6	1012.7
67.5°	614.6	675.9	800.6	905.6	938.4
70°	522.8	597.1	724.0	829.0	866.2
72.5°	444.0	518.4	651.8	754.6	791.8
75°	360.9	441.8	575.3	678.1	710.9
77.5°	277.8	367.5	500.9	579.6	590.6
80°	199.0	293.1	415.6	461.5	476.8
82.5°	140.0	225.3	306.2	336.9	345.6
85°	76.6	148.7	192.5	205.6	205.6
87.5°	32.8	63.4	76.6	78.7	80.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)