

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: P276766

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60HE-RDP-UNV-L83050-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4068.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

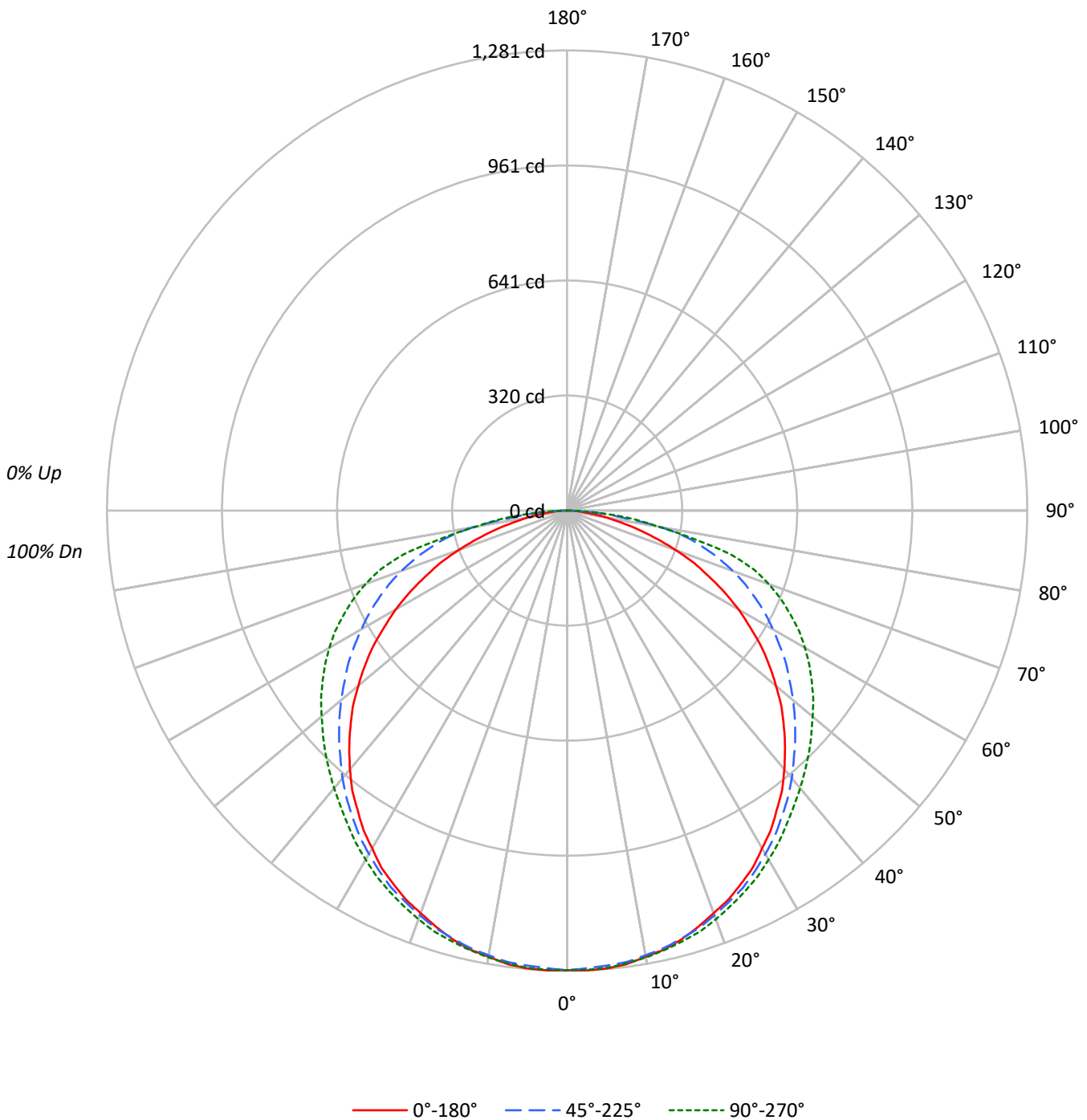
Input Watts (W): 46.437132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1721	1721	1721
5°	1728	1717	1725
10°	1723	1718	1726
15°	1720	1717	1729
20°	1707	1716	1734
25°	1701	1719	1737
30°	1687	1715	1743
35°	1670	1710	1750
40°	1652	1708	1772
45°	1624	1709	1812
50°	1588	1719	1867
55°	1548	1747	1950
60°	1482	1781	2058
65°	1387	1844	2184
70°	1262	1929	2350
75°	1070	2035	2455
80°	845	2048	1986
85°	624	1558	1744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	3.0
10°-20°	349.2	8.6
20°-30°	534.1	13.1
30°-40°	652.9	16.0
40°-50°	695.8	17.1
50°-60°	665.3	16.4
60°-70°	563.6	13.9
70°-80°	378.8	9.3
80°-90°	106.9	2.6
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°	1004.7	24.7
0°-40°	1657.6	40.7
0°-60°	3018.8	74.2
0°-90°	4068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1279	1277	1271	1277	1277	122
15°	1235	1235	1233	1243	1241	348
25°	1146	1150	1158	1168	1170	528
35°	1017	1025	1041	1061	1065	637
45°	854	868	898	936	952	658
55°	660	684	745	803	831	588
65°	436	480	579	656	686	433
75°	206	280	391	458	472	220
85°	40	83	101	109	113	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1279.3	1279.3	1279.3	1279.3	1279.3
2.5°	1281.3	1281.3	1275.2	1279.3	1279.3
5°	1279.3	1277.3	1271.2	1277.3	1277.3
7.5°	1273.2	1271.2	1267.2	1273.2	1271.2
10°	1261.1	1261.1	1257.1	1263.1	1263.1
12.5°	1251.0	1249.0	1247.0	1255.1	1253.0
15°	1234.9	1234.9	1232.9	1242.9	1240.9
17.5°	1214.7	1216.7	1218.7	1226.8	1228.8
20°	1192.5	1196.5	1198.6	1210.7	1210.7
22.5°	1172.3	1174.3	1178.4	1190.5	1190.5
25°	1146.1	1150.1	1158.2	1168.3	1170.3
27.5°	1119.9	1121.9	1132.0	1146.1	1148.1
30°	1085.6	1091.6	1103.7	1119.9	1121.9
32.5°	1055.3	1061.4	1075.5	1091.6	1095.7
35°	1017.0	1025.0	1041.2	1061.4	1065.4
37.5°	982.7	988.7	1008.9	1031.1	1037.1
40°	940.3	952.4	972.6	998.8	1008.9
42.5°	897.9	910.0	934.2	968.5	980.6
45°	853.5	867.6	897.9	936.2	952.4
47.5°	809.1	825.3	859.6	904.0	922.1
50°	758.7	778.9	821.2	871.7	891.9
52.5°	710.3	734.5	780.9	837.4	863.6
55°	659.8	684.0	744.6	803.1	831.3
57.5°	603.3	635.6	702.2	768.8	799.0
60°	550.9	581.1	661.8	734.5	764.7
62.5°	494.4	534.7	621.5	698.2	728.4
65°	435.8	480.2	579.1	655.8	686.0
67.5°	383.4	431.8	536.7	613.4	643.7
70°	320.8	381.4	490.3	567.0	597.3
72.5°	262.3	328.9	441.9	516.6	544.8
75°	205.8	280.5	391.4	458.0	472.2
77.5°	153.4	232.0	339.0	367.2	357.1
80°	109.0	185.6	264.3	250.2	256.3
82.5°	70.6	141.2	163.4	185.6	191.7
85°	40.4	82.7	100.9	109.0	113.0
87.5°	18.2	30.3	40.4	40.4	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)