

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: P276751

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276751
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: 24CZ2-45HE-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: 3025.0 lumens
Efficiency: N/A
Efficacy: 91.7 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

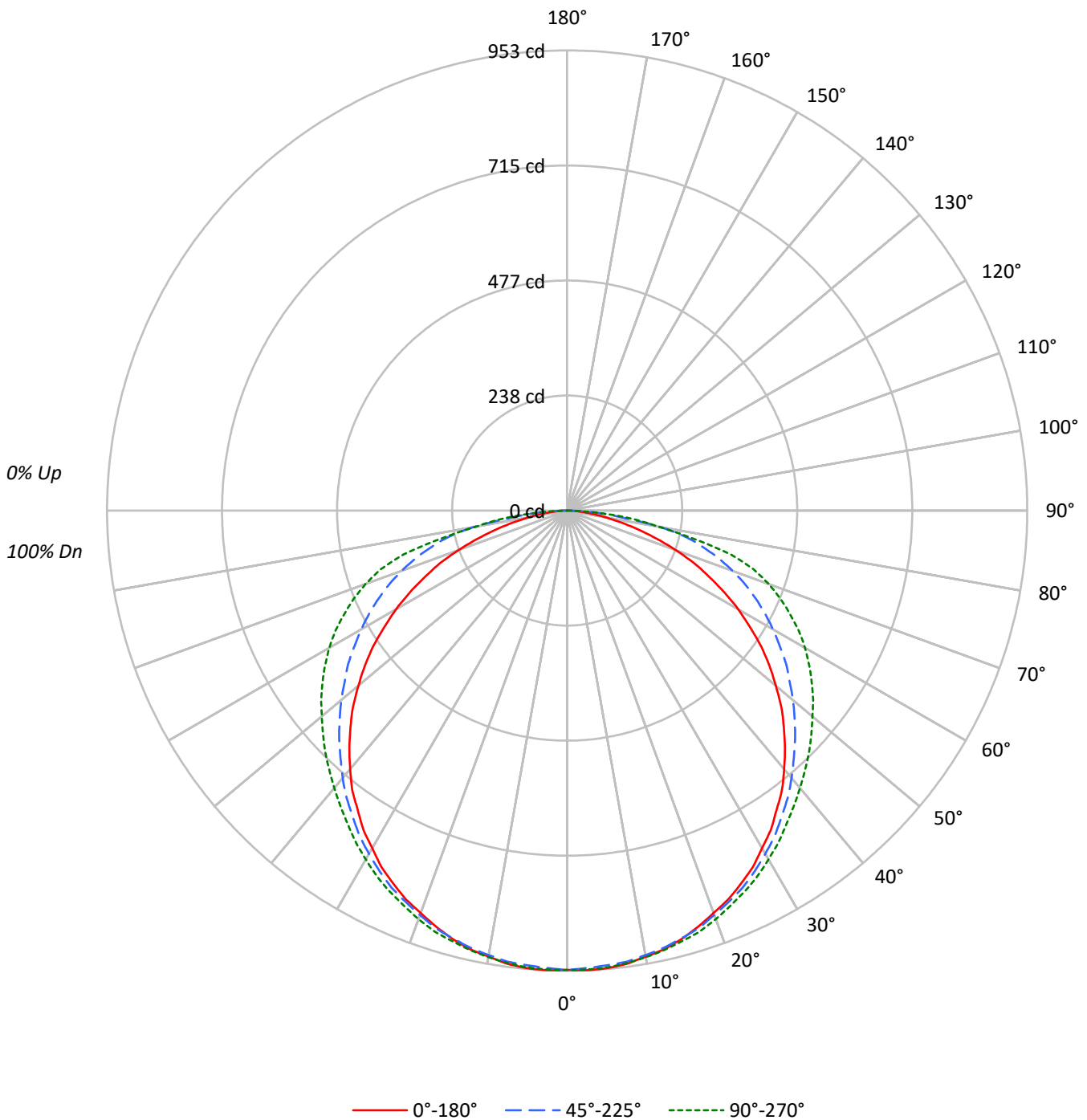
Input Watts (W): 32.974266
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1280	1280	1280
5°	1285	1277	1283
10°	1281	1277	1283
15°	1279	1277	1285
20°	1270	1276	1289
25°	1265	1279	1292
30°	1254	1275	1296
35°	1242	1272	1301
40°	1228	1270	1318
45°	1208	1271	1348
50°	1181	1278	1388
55°	1151	1299	1450
60°	1102	1324	1530
65°	1032	1371	1624
70°	939	1434	1747
75°	795	1513	1825
80°	628	1523	1477
85°	463	1158	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	3.0
10°-20°	259.7	8.6
20°-30°	397.1	13.1
30°-40°	485.5	16.0
40°-50°	517.4	17.1
50°-60°	494.8	16.4
60°-70°	419.1	13.9
70°-80°	281.7	9.3
80°-90°	79.4	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°	747.1	24.7
0°-40°	1232.6	40.7
0°-60°	2244.8	74.2
0°-90°	3025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	951	950	945	950	950	90
15°	918	918	917	924	923	259
25°	852	855	861	869	870	393
35°	756	762	774	789	792	474
45°	635	645	668	696	708	490
55°	491	509	554	597	618	437
65°	324	357	431	488	510	322
75°	153	209	291	341	351	164
85°	30	62	75	81	84	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.3	951.3	951.3	951.3	951.3
2.5°	952.8	952.8	948.3	951.3	951.3
5°	951.3	949.8	945.3	949.8	949.8
7.5°	946.8	945.3	942.3	946.8	945.3
10°	937.8	937.8	934.8	939.3	939.3
12.5°	930.3	928.8	927.3	933.3	931.8
15°	918.3	918.3	916.8	924.3	922.8
17.5°	903.3	904.8	906.3	912.3	913.8
20°	886.8	889.8	891.3	900.3	900.3
22.5°	871.8	873.3	876.3	885.3	885.3
25°	852.2	855.2	861.2	868.8	870.3
27.5°	832.7	834.2	841.7	852.2	853.7
30°	807.2	811.7	820.7	832.7	834.2
32.5°	784.7	789.2	799.7	811.7	814.7
35°	756.2	762.2	774.2	789.2	792.2
37.5°	730.7	735.2	750.2	766.7	771.2
40°	699.2	708.2	723.2	742.7	750.2
42.5°	667.7	676.7	694.7	720.2	729.2
45°	634.7	645.2	667.7	696.2	708.2
47.5°	601.7	613.7	639.2	672.2	685.7
50°	564.2	579.2	610.7	648.2	663.2
52.5°	528.2	546.2	580.7	622.7	642.2
55°	490.6	508.6	553.7	597.2	618.2
57.5°	448.6	472.6	522.2	571.7	594.2
60°	409.6	432.1	492.1	546.2	568.7
62.5°	367.6	397.6	462.1	519.2	541.7
65°	324.1	357.1	430.6	487.6	510.1
67.5°	285.1	321.1	399.1	456.1	478.6
70°	238.6	283.6	364.6	421.6	444.1
72.5°	195.1	244.6	328.6	384.1	405.1
75°	153.0	208.6	291.1	340.6	351.1
77.5°	114.0	172.6	252.1	273.1	265.6
80°	81.0	138.0	196.6	186.1	190.6
82.5°	52.5	105.0	121.5	138.0	142.5
85°	30.0	61.5	75.0	81.0	84.0
87.5°	13.5	22.5	30.0	30.0	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)