

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: P276799

Luminaire Tested: **24CZ2-45-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276799
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: 24CZ2-45-RDP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3028.0 lumens
Efficiency: N/A
Efficacy: 84.6 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

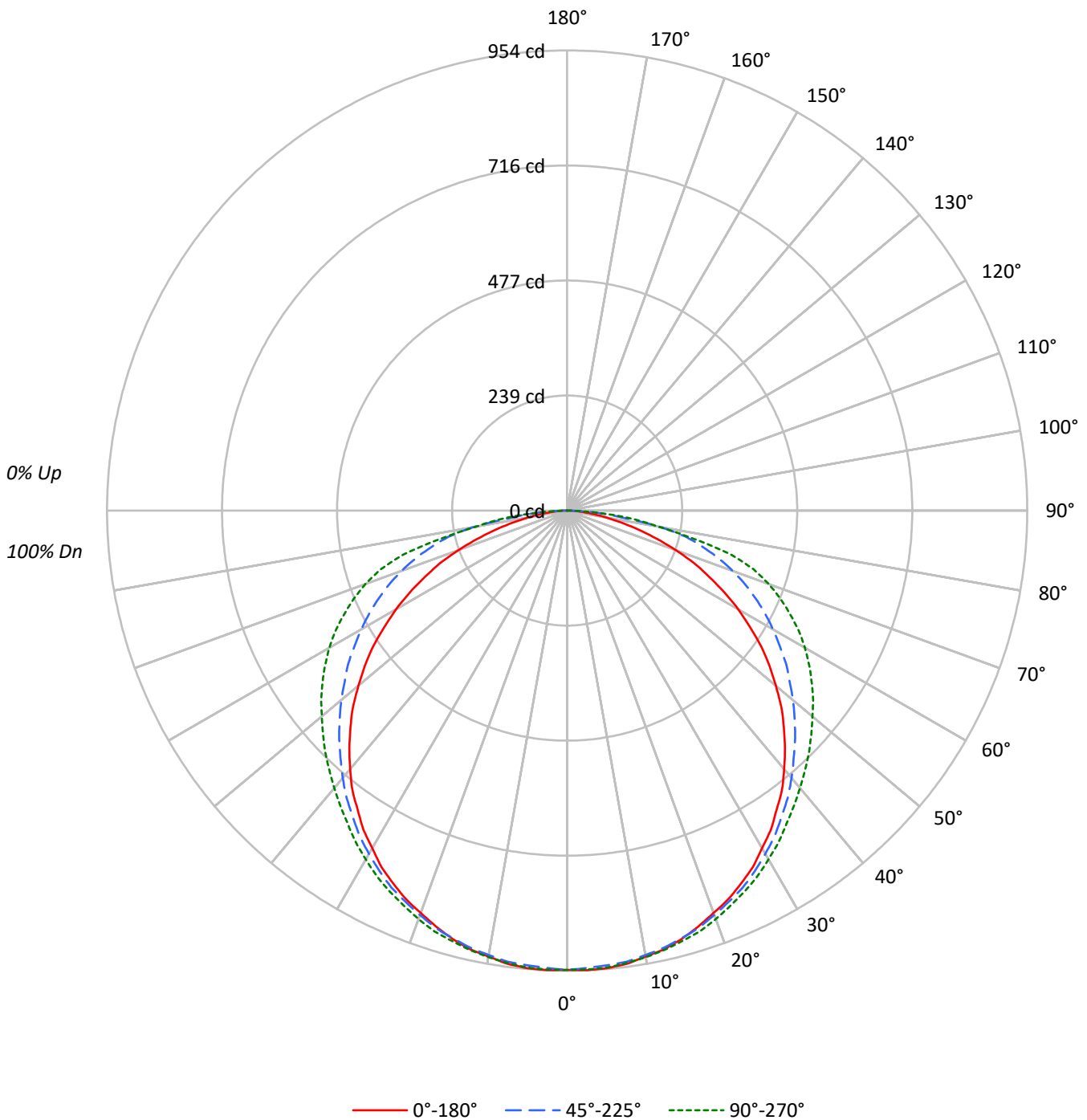
Input Watts (W): 35.772264
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1281	1281	1281
5°	1286	1278	1284
10°	1282	1278	1285
15°	1280	1278	1287
20°	1271	1277	1290
25°	1266	1280	1293
30°	1255	1276	1297
35°	1243	1273	1303
40°	1229	1271	1319
45°	1209	1272	1349
50°	1182	1280	1390
55°	1152	1300	1452
60°	1103	1326	1532
65°	1033	1372	1626
70°	939	1436	1749
75°	796	1515	1827
80°	628	1525	1478
85°	463	1159	1298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	3.0
10°-20°	260.0	8.6
20°-30°	397.5	13.1
30°-40°	486.0	16.0
40°-50°	518.0	17.1
50°-60°	495.2	16.4
60°-70°	419.5	13.9
70°-80°	282.0	9.3
80°-90°	79.5	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°	747.8	24.7
0°-40°	1233.8	40.7
0°-60°	2247.0	74.2
0°-90°	3028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	952	951	946	951	951	90
15°	919	919	918	925	924	259
25°	853	856	862	870	871	393
35°	757	763	775	790	793	474
45°	635	646	668	697	709	490
55°	491	509	554	598	619	437
65°	324	358	431	488	511	322
75°	153	209	291	341	352	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°	952.2	952.2	952.2	952.2	952.2
2.5°	953.7	953.7	949.2	952.2	952.2
5°	952.2	950.7	946.2	950.7	950.7
7.5°	947.7	946.2	943.2	947.7	946.2
10°	938.7	938.7	935.7	940.2	940.2
12.5°	931.2	929.7	928.2	934.2	932.7
15°	919.2	919.2	917.7	925.2	923.7
17.5°	904.2	905.7	907.2	913.2	914.7
20°	887.6	890.6	892.1	901.2	901.2
22.5°	872.6	874.1	877.1	886.1	886.1
25°	853.1	856.1	862.1	869.6	871.1
27.5°	833.6	835.1	842.6	853.1	854.6
30°	808.0	812.5	821.6	833.6	835.1
32.5°	785.5	790.0	800.5	812.5	815.5
35°	757.0	763.0	775.0	790.0	793.0
37.5°	731.4	735.9	751.0	767.5	772.0
40°	699.9	708.9	723.9	743.5	751.0
42.5°	668.4	677.4	695.4	720.9	729.9
45°	635.3	645.8	668.4	696.9	708.9
47.5°	602.3	614.3	639.8	672.9	686.4
50°	564.7	579.7	611.3	648.8	663.9
52.5°	528.7	546.7	581.2	623.3	642.8
55°	491.1	509.2	554.2	597.8	618.8
57.5°	449.1	473.1	522.7	572.2	594.8
60°	410.0	432.6	492.6	546.7	569.2
62.5°	368.0	398.0	462.6	519.7	542.2
65°	324.4	357.5	431.1	488.1	510.7
67.5°	285.4	321.4	399.5	456.6	479.1
70°	238.8	283.9	365.0	422.0	444.6
72.5°	195.3	244.8	328.9	384.5	405.5
75°	153.2	208.8	291.4	340.9	351.5
77.5°	114.1	172.7	252.3	273.4	265.8
80°	81.1	138.2	196.8	186.2	190.7
82.5°	52.6	105.1	121.7	138.2	142.7
85°	30.0	61.6	75.1	81.1	84.1
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)