

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: P277006

Luminaire Tested: **24CZ2-45-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277006
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-L82765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3006.3 lumens
Efficiency: N/A
Efficacy: 83.5 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

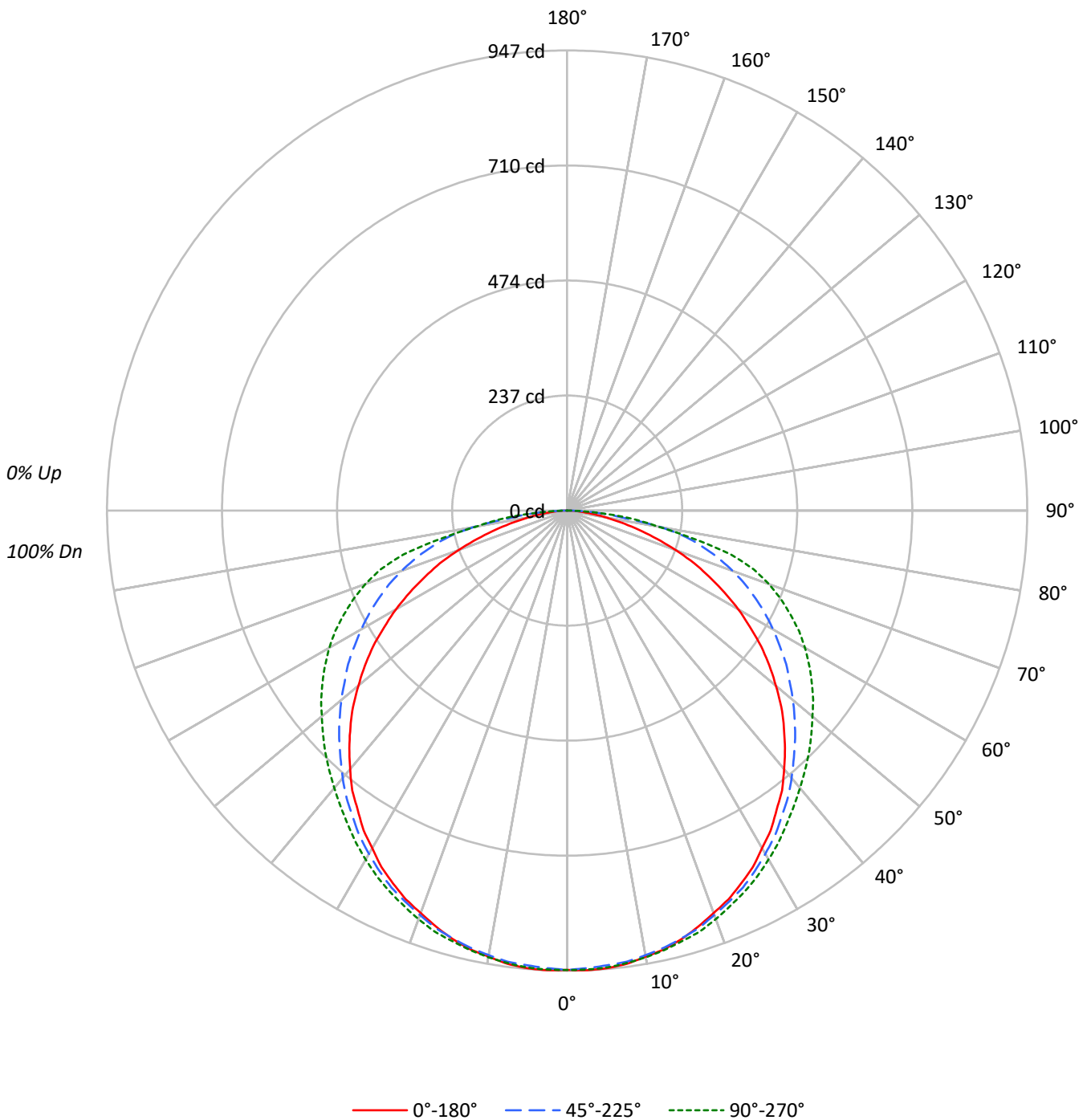
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1272	1272	1272
5°	1277	1269	1275
10°	1273	1269	1275
15°	1271	1269	1277
20°	1262	1268	1281
25°	1257	1271	1284
30°	1246	1267	1288
35°	1234	1264	1293
40°	1221	1262	1310
45°	1200	1263	1339
50°	1174	1270	1380
55°	1144	1291	1441
60°	1095	1316	1521
65°	1025	1363	1614
70°	933	1425	1736
75°	791	1504	1814
80°	624	1513	1468
85°	460	1152	1289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	3.0
10°-20°	258.1	8.6
20°-30°	394.7	13.1
30°-40°	482.5	16.0
40°-50°	514.2	17.1
50°-60°	491.7	16.4
60°-70°	416.5	13.9
70°-80°	279.9	9.3
80°-90°	79.0	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°	742.5	24.7
0°-40°	1224.9	40.7
0°-60°	2230.9	74.2
0°-90°	3006.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3006.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	945	944	939	944	944	90
15°	913	913	911	918	917	257
25°	847	850	856	863	865	390
35°	752	758	769	784	787	471
45°	631	641	664	692	704	487
55°	488	506	550	594	614	434
65°	322	355	428	485	507	320
75°	152	207	289	338	349	163
85°	30	61	75	80	84	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.4	945.4	945.4	945.4	945.4
2.5°	946.9	946.9	942.4	945.4	945.4
5°	945.4	943.9	939.4	943.9	943.9
7.5°	940.9	939.4	936.4	940.9	939.4
10°	932.0	932.0	929.0	933.5	933.5
12.5°	924.5	923.0	921.5	927.5	926.0
15°	912.6	912.6	911.1	918.5	917.0
17.5°	897.7	899.2	900.6	906.6	908.1
20°	881.3	884.2	885.7	894.7	894.7
22.5°	866.4	867.8	870.8	879.8	879.8
25°	847.0	849.9	855.9	863.4	864.9
27.5°	827.6	829.1	836.5	847.0	848.5
30°	802.2	806.7	815.7	827.6	829.1
32.5°	779.9	784.3	794.8	806.7	809.7
35°	751.5	757.5	769.4	784.3	787.3
37.5°	726.2	730.7	745.6	762.0	766.4
40°	694.9	703.8	718.7	738.1	745.6
42.5°	663.6	672.5	690.4	715.7	724.7
45°	630.8	641.2	663.6	691.9	703.8
47.5°	597.9	609.9	635.2	668.0	681.5
50°	560.7	575.6	606.9	644.2	659.1
52.5°	524.9	542.8	577.1	618.8	638.2
55°	487.6	505.5	550.2	593.5	614.3
57.5°	445.9	469.7	518.9	568.1	590.5
60°	407.1	429.4	489.1	542.8	565.1
62.5°	365.3	395.2	459.3	515.9	538.3
65°	322.1	354.9	428.0	484.6	507.0
67.5°	283.3	319.1	396.6	453.3	475.7
70°	237.1	281.8	362.3	419.0	441.4
72.5°	193.8	243.1	326.6	381.7	402.6
75°	152.1	207.3	289.3	338.5	348.9
77.5°	113.3	171.5	250.5	271.4	263.9
80°	80.5	137.2	195.3	184.9	189.4
82.5°	52.2	104.4	120.8	137.2	141.7
85°	29.8	61.1	74.6	80.5	83.5
87.5°	13.4	22.4	29.8	29.8	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)