

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: P276132

Luminaire Tested: **24CZ2-30-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276132
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: 24CZ2-30-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2632.7 lumens
Efficiency: N/A
Efficacy: 121.0 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

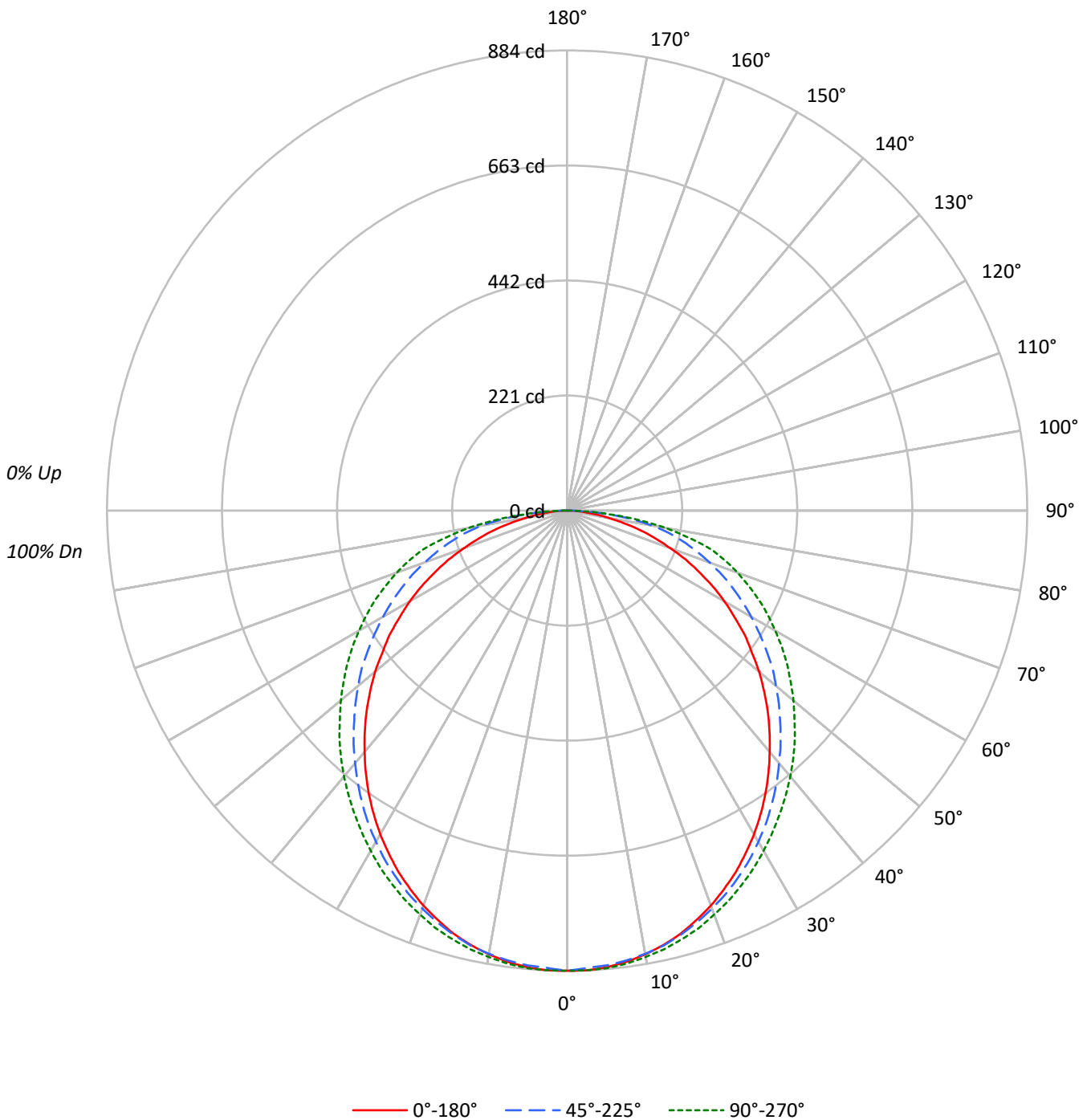
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1189	1189	1189
5°	1189	1184	1192
10°	1182	1181	1190
15°	1173	1175	1187
20°	1156	1165	1183
25°	1137	1154	1178
30°	1115	1141	1173
35°	1091	1127	1169
40°	1063	1113	1171
45°	1037	1102	1177
50°	1008	1096	1188
55°	977	1095	1210
60°	939	1100	1241
65°	890	1116	1295
70°	826	1144	1369
75°	754	1201	1485
80°	620	1293	1484
85°	475	1193	1275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.2
10°-20°	238.7	9.1
20°-30°	359.2	13.6
30°-40°	430.4	16.3
40°-50°	448.5	17.0
50°-60°	417.3	15.9
60°-70°	343.7	13.1
70°-80°	234.1	8.9
80°-90°	77.3	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°	681.4	25.9
0°-40°	1111.8	42.2
0°-60°	1977.7	75.1
0°-90°	2632.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2632.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	880	880	877	881	882	84
15°	842	843	844	851	852	237
25°	766	770	778	791	793	353
35°	664	672	686	705	712	415
45°	545	556	579	608	619	420
55°	416	430	467	504	516	371
65°	279	303	351	392	407	277
75°	145	178	231	272	286	153
85°	31	60	77	83	83	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	883.9	883.9	883.9	883.9	883.9
2.5°	883.9	883.9	879.5	883.9	883.9
5°	880.4	880.4	876.9	881.3	882.2
7.5°	874.3	875.1	871.6	876.9	877.8
10°	865.5	866.4	864.6	869.9	870.7
12.5°	854.9	855.8	855.8	862.0	862.8
15°	841.8	842.6	843.5	851.4	852.3
17.5°	825.1	827.7	829.4	839.1	840.9
20°	807.5	810.1	813.6	824.2	825.9
22.5°	787.3	790.8	796.9	808.4	811.0
25°	766.2	769.7	777.6	790.8	793.4
27.5°	742.5	747.7	757.4	771.5	775.0
30°	717.9	723.1	734.6	749.5	754.8
32.5°	691.5	698.5	711.7	728.4	733.7
35°	664.3	672.2	686.2	704.7	711.7
37.5°	635.3	644.1	660.7	681.0	689.7
40°	605.4	615.9	633.5	657.2	666.9
42.5°	575.5	585.2	607.1	632.6	643.2
45°	544.8	556.2	579.0	608.0	618.6
47.5°	513.1	524.6	551.8	582.5	592.2
50°	481.5	492.9	523.7	556.2	567.6
52.5°	447.2	462.2	497.3	529.8	541.3
55°	416.5	430.5	466.6	503.5	515.8
57.5°	381.3	398.0	437.6	476.2	489.4
60°	348.8	366.4	408.6	448.1	461.3
62.5°	315.4	334.8	379.6	420.0	434.9
65°	279.4	303.1	350.6	391.9	406.8
67.5°	246.9	271.5	321.6	363.8	376.9
70°	210.0	239.9	290.8	333.0	347.9
72.5°	178.4	208.2	261.8	303.1	318.1
75°	145.0	177.5	231.1	272.4	285.6
77.5°	111.6	147.6	201.2	232.8	237.2
80°	80.0	117.7	166.9	185.4	191.5
82.5°	56.2	90.5	123.0	135.3	138.8
85°	30.8	59.7	77.3	82.6	82.6
87.5°	13.2	25.5	30.8	31.6	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)