

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: P276019

Luminaire Tested: **24CZ2-30-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276019
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-L93050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2633.9 lumens
Efficiency: N/A
Efficacy: 118.0 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

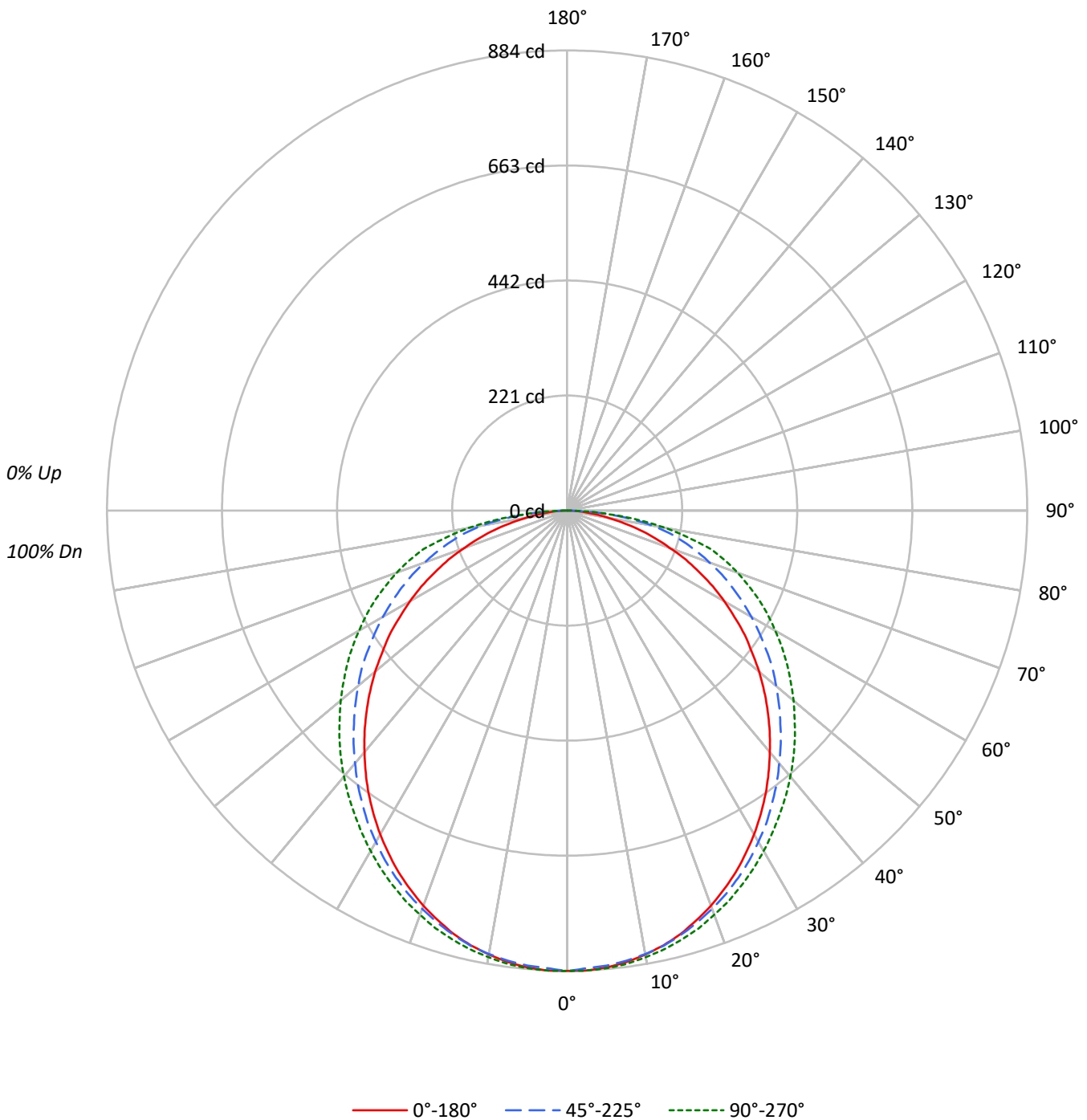
Input Watts (W): 22.327812
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1190	1190	1190
5°	1190	1185	1192
10°	1183	1182	1190
15°	1173	1176	1188
20°	1157	1166	1183
25°	1138	1155	1178
30°	1116	1142	1173
35°	1092	1128	1169
40°	1064	1113	1172
45°	1037	1102	1178
50°	1008	1097	1189
55°	977	1095	1210
60°	939	1100	1242
65°	890	1117	1296
70°	827	1145	1369
75°	754	1202	1485
80°	620	1294	1485
85°	475	1195	1275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.2
10°-20°	238.8	9.1
20°-30°	359.3	13.6
30°-40°	430.6	16.3
40°-50°	448.7	17.0
50°-60°	417.5	15.9
60°-70°	343.9	13.1
70°-80°	234.2	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°	681.7	25.9
0°-40°	1112.3	42.2
0°-60°	1978.6	75.1
0°-90°	2633.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2633.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	881	881	877	882	883	84
15°	842	843	844	852	853	237
25°	766	770	778	791	794	353
35°	665	672	686	705	712	415
45°	545	556	579	608	619	420
55°	417	431	467	504	516	371
65°	280	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°	884.3	884.3	884.3	884.3	884.3
2.5°	884.3	884.3	879.9	884.3	884.3
5°	880.8	880.8	877.3	881.7	882.6
7.5°	874.7	875.5	872.0	877.3	878.2
10°	865.9	866.8	865.0	870.3	871.2
12.5°	855.3	856.2	856.2	862.4	863.2
15°	842.1	843.0	843.9	851.8	852.7
17.5°	825.4	828.1	829.8	839.5	841.3
20°	807.9	810.5	814.0	824.6	826.3
22.5°	787.6	791.2	797.3	808.7	811.4
25°	766.5	770.1	778.0	791.2	793.8
27.5°	742.8	748.1	757.8	771.8	775.3
30°	718.2	723.5	734.9	749.8	755.1
32.5°	691.8	698.9	712.0	728.7	734.0
35°	664.6	672.5	686.5	705.0	712.0
37.5°	635.6	644.4	661.1	681.3	690.1
40°	605.7	616.2	633.8	657.5	667.2
42.5°	575.8	585.5	607.4	632.9	643.5
45°	545.0	556.4	579.3	608.3	618.9
47.5°	513.4	524.8	552.1	582.8	592.5
50°	481.7	493.2	523.9	556.4	567.9
52.5°	447.4	462.4	497.5	530.1	541.5
55°	416.7	430.7	466.8	503.7	516.0
57.5°	381.5	398.2	437.8	476.5	489.6
60°	349.0	366.6	408.8	448.3	461.5
62.5°	315.6	334.9	379.8	420.2	435.1
65°	279.5	303.3	350.7	392.1	407.0
67.5°	247.0	271.6	321.7	363.9	377.1
70°	210.1	240.0	291.0	333.2	348.1
72.5°	178.4	208.3	262.0	303.3	318.2
75°	145.0	177.6	231.2	272.5	285.7
77.5°	111.6	147.7	201.3	233.0	237.3
80°	80.0	117.8	167.0	185.5	191.6
82.5°	56.3	90.5	123.1	135.4	138.9
85°	30.8	59.8	77.4	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)