

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: P276553

Luminaire Tested: **24CZ2-30-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-S-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2845.8 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

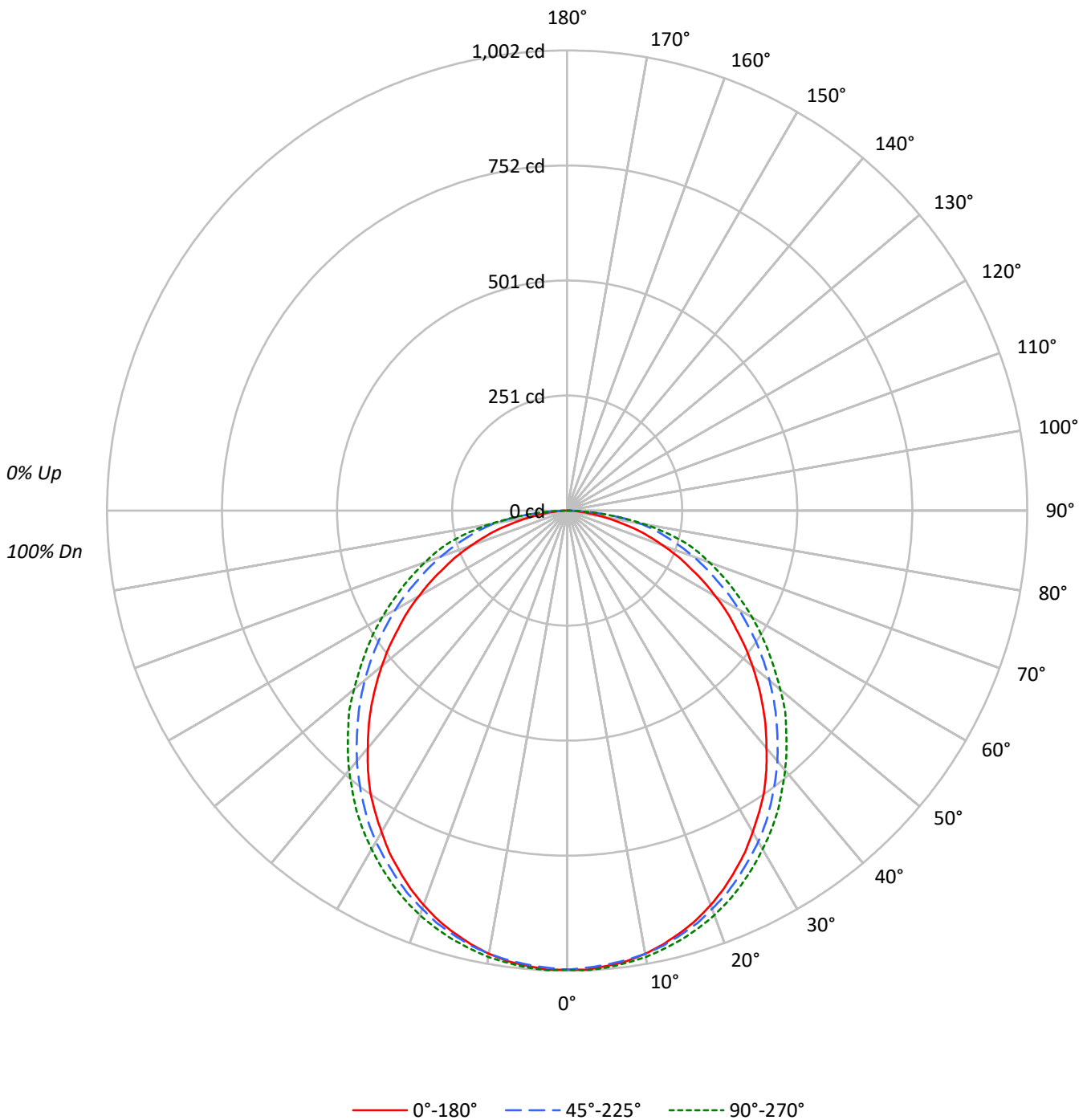
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276553

CATALOG NUMBER: 24CZ2-30-S-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P276553

CATALOG NUMBER: 24CZ2-30-S-UNV-L82765-W2A1-U-3000K

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1345	1345	1345
5°	1344	1340	1349
10°	1339	1339	1349
15°	1326	1332	1346
20°	1309	1321	1342
25°	1284	1308	1334
30°	1255	1293	1323
35°	1228	1272	1313
40°	1186	1251	1297
45°	1147	1226	1283
50°	1103	1203	1268
55°	1054	1181	1255
60°	1005	1163	1253
65°	941	1143	1260
70°	871	1149	1294
75°	780	1170	1367
80°	631	1240	1338
85°	474	1088	1061



TEST NUMBER: P276553

CATALOG NUMBER: 24CZ2-30-S-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.3
10°-20°	270.4	9.5
20°-30°	406.5	14.3
30°-40°	484.2	17.0
40°-50°	495.6	17.4
50°-60°	446.2	15.7
60°-70°	350.4	12.3
70°-80°	227.4	8.0
80°-90°	70.3	2.5
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°	771.6	27.1
0°-40°	1255.9	44.1
0°-60°	2197.7	77.2
0°-90°	2845.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2845.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	995	997	992	998	999	95
15°	952	955	956	964	966	268
25°	865	872	881	896	898	399
35°	748	757	775	794	799	466
45°	603	617	644	669	674	465
55°	449	469	504	530	535	403
65°	296	318	359	389	396	294
75°	150	179	225	256	263	159
85°	31	57	70	69	69	37
90°	0	0	0	0	0	



TEST NUMBER: P276553

CATALOG NUMBER: 24CZ2-30-S-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.8	999.8	999.8	999.8	999.8
2.5°	1000.7	1000.7	996.1	1000.7	1001.6
5°	995.2	997.0	992.5	997.9	998.8
7.5°	989.8	989.8	987.1	992.5	993.4
10°	979.9	980.8	979.9	986.2	987.1
12.5°	967.2	969.0	969.9	976.2	977.2
15°	951.8	954.6	956.4	964.5	966.3
17.5°	934.7	937.4	941.9	950.9	952.7
20°	913.9	917.5	922.9	934.7	937.4
22.5°	891.3	894.9	903.9	914.8	919.3
25°	865.1	872.3	881.3	895.8	898.5
27.5°	838.9	845.2	856.9	872.3	875.9
30°	808.1	818.1	832.5	847.9	851.5
32.5°	778.3	788.2	805.4	821.7	826.2
35°	747.6	756.6	774.7	793.7	799.1
37.5°	712.3	724.1	743.9	762.9	768.3
40°	675.2	689.7	712.3	732.2	738.5
42.5°	640.0	655.4	677.9	699.6	706.9
45°	602.9	617.4	644.5	668.9	674.3
47.5°	565.0	581.2	610.2	634.6	643.6
50°	527.0	544.2	574.9	600.2	605.6
52.5°	489.0	507.1	539.6	566.8	569.5
55°	449.3	469.1	503.5	529.7	535.1
57.5°	413.1	430.3	467.3	494.5	500.8
60°	373.3	392.3	432.1	457.4	465.5
62.5°	335.4	355.2	396.8	422.1	429.4
65°	295.6	318.2	358.9	388.7	395.9
67.5°	261.2	282.9	326.3	355.2	362.5
70°	221.5	245.9	292.0	321.8	329.0
72.5°	187.1	212.4	258.5	287.5	298.3
75°	150.1	179.0	225.1	255.8	263.0
77.5°	113.9	147.3	194.3	217.8	217.8
80°	81.4	116.6	160.0	170.8	172.7
82.5°	53.3	87.7	118.4	117.5	117.5
85°	30.7	56.9	70.5	68.7	68.7
87.5°	11.8	23.5	25.3	25.3	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)