

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: P276139

Luminaire Tested: **24CZ2-30-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276139
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-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2991.2 lumens
Efficiency: N/A
Efficacy: 133.5 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

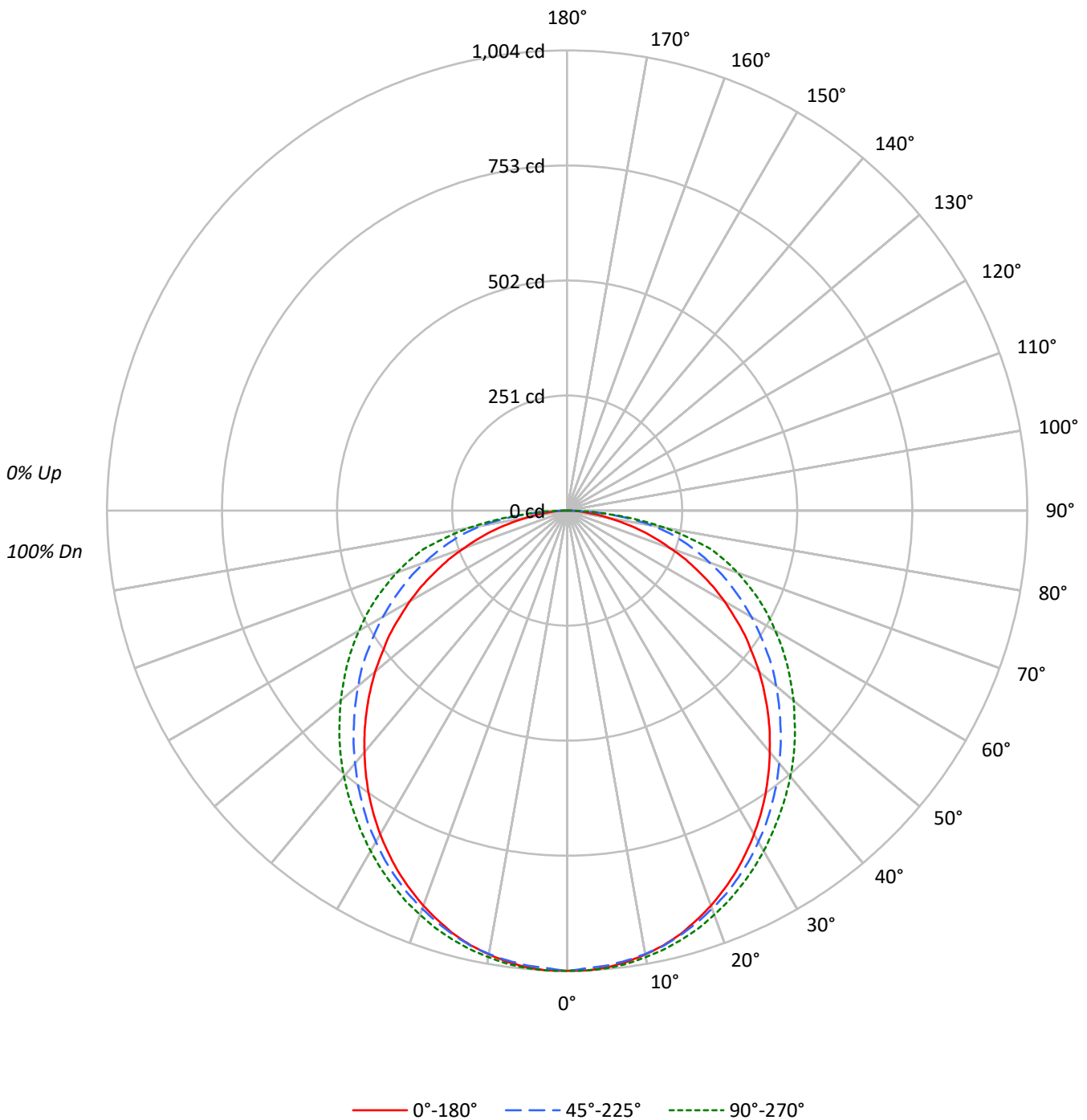
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276139

CATALOG NUMBER: 24CZ2-30-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P276139

CATALOG NUMBER: 24CZ2-30-UNV-L82765-W2A1-U-5700K

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°	1351	1351	1351
5°	1351	1346	1354
10°	1343	1342	1352
15°	1332	1335	1349
20°	1314	1324	1344
25°	1292	1312	1338
30°	1267	1297	1332
35°	1240	1281	1328
40°	1208	1264	1331
45°	1178	1252	1337
50°	1145	1245	1350
55°	1110	1244	1375
60°	1066	1249	1410
65°	1011	1268	1472
70°	939	1300	1555
75°	856	1365	1687
80°	704	1470	1686
85°	539	1357	1448



TEST NUMBER: P276139

CATALOG NUMBER: 24CZ2-30-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	3.2
10°-20°	271.2	9.1
20°-30°	408.1	13.6
30°-40°	489.0	16.3
40°-50°	509.6	17.0
50°-60°	474.1	15.9
60°-70°	390.5	13.1
70°-80°	266.0	8.9
80°-90°	87.8	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°	774.2	25.9
0°-40°	1263.2	42.2
0°-60°	2247.0	75.1
0°-90°	2991.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2991.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1000	1000	996	1001	1002	95
15°	956	957	958	967	968	269
25°	870	874	884	898	902	401
35°	755	764	780	801	809	472
45°	619	632	658	691	703	477
55°	473	489	530	572	586	422
65°	318	344	398	445	462	315
75°	165	202	263	310	324	174
85°	35	68	88	94	94	43
90°	0	0	0	0	0	



TEST NUMBER: P276139

CATALOG NUMBER: 24CZ2-30-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004.3	1004.3	1004.3	1004.3	1004.3
2.5°	1004.3	1004.3	999.3	1004.3	1004.3
5°	1000.3	1000.3	996.3	1001.3	1002.3
7.5°	993.3	994.3	990.3	996.3	997.3
10°	983.3	984.3	982.3	988.3	989.3
12.5°	971.4	972.4	972.4	979.3	980.3
15°	956.4	957.4	958.4	967.4	968.4
17.5°	937.4	940.4	942.4	953.4	955.4
20°	917.4	920.4	924.4	936.4	938.4
22.5°	894.5	898.5	905.5	918.4	921.4
25°	870.5	874.5	883.5	898.5	901.5
27.5°	843.6	849.6	860.5	876.5	880.5
30°	815.6	821.6	834.6	851.6	857.6
32.5°	785.7	793.7	808.6	827.6	833.6
35°	754.7	763.7	779.7	800.6	808.6
37.5°	721.8	731.8	750.7	773.7	783.7
40°	687.8	699.8	719.8	746.7	757.7
42.5°	653.9	664.9	689.8	718.8	730.8
45°	619.0	631.9	657.9	690.8	702.8
47.5°	583.0	596.0	626.9	661.9	672.9
50°	547.1	560.1	595.0	631.9	644.9
52.5°	508.1	525.1	565.0	602.0	615.0
55°	473.2	489.2	530.1	572.0	586.0
57.5°	433.3	452.2	497.2	541.1	556.1
60°	396.3	416.3	464.2	509.1	524.1
62.5°	358.4	380.4	431.3	477.2	494.2
65°	317.5	344.4	398.3	445.2	462.2
67.5°	280.5	308.5	365.4	413.3	428.3
70°	238.6	272.5	330.4	378.4	395.3
72.5°	202.7	236.6	297.5	344.4	361.4
75°	164.7	201.7	262.6	309.5	324.5
77.5°	126.8	167.7	228.6	264.6	269.5
80°	90.8	133.8	189.7	210.6	217.6
82.5°	63.9	102.8	139.8	153.7	157.7
85°	34.9	67.9	87.9	93.8	93.8
87.5°	15.0	29.0	34.9	35.9	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)