

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: P276047

Luminaire Tested: **24CZ2-30HE-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276047
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: 24CZ2-30HE-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2990.3 lumens
Efficiency: N/A
Efficacy: 148.9 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

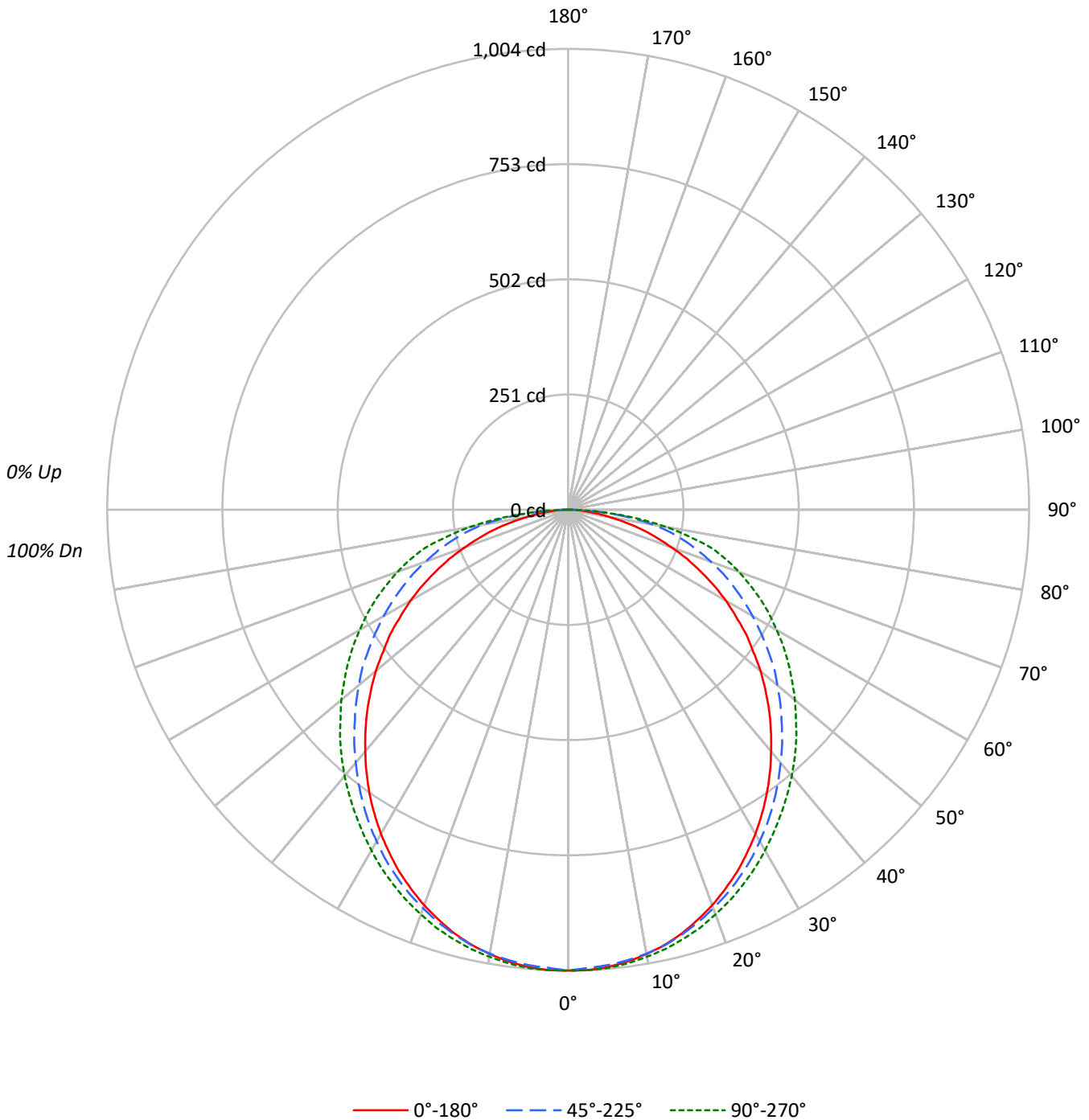
Input Watts (W): 20.088
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276047

CATALOG NUMBER: 24CZ2-30HE-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P276047

CATALOG NUMBER: 24CZ2-30HE-UNV-L82765-W2A1-U-5000K

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	1345	1353
10°	1343	1342	1351
15°	1332	1335	1349
20°	1313	1323	1343
25°	1292	1311	1338
30°	1267	1296	1332
35°	1239	1280	1328
40°	1208	1264	1330
45°	1177	1251	1337
50°	1145	1245	1349
55°	1110	1243	1374
60°	1066	1249	1410
65°	1011	1268	1471
70°	938	1299	1555
75°	856	1365	1686
80°	704	1469	1686
85°	539	1355	1448



TEST NUMBER: P276047

CATALOG NUMBER: 24CZ2-30HE-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	3.2
10°-20°	271.1	9.1
20°-30°	407.9	13.6
30°-40°	488.9	16.3
40°-50°	509.5	17.0
50°-60°	474.0	15.9
60°-70°	390.4	13.1
70°-80°	265.9	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°	774.0	25.9
0°-40°	1262.8	42.2
0°-60°	2246.3	75.1
0°-90°	2990.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2990.3	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	883	898	901	401
35°	754	764	779	800	808	472
45°	619	632	658	691	703	477
55°	473	489	530	572	586	422
65°	317	344	398	445	462	315
75°	165	202	262	309	324	174
85°	35	68	88	94	94	43
90°	0	0	0	0	0	



TEST NUMBER: P276047

CATALOG NUMBER: 24CZ2-30HE-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004.0	1004.0	1004.0	1004.0	1004.0
2.5°	1004.0	1004.0	999.0	1004.0	1004.0
5°	1000.0	1000.0	996.0	1001.0	1002.0
7.5°	993.0	994.0	990.0	996.0	997.0
10°	983.0	984.0	982.0	988.0	989.0
12.5°	971.1	972.0	972.0	979.0	980.0
15°	956.1	957.1	958.1	967.1	968.1
17.5°	937.1	940.1	942.1	953.1	955.1
20°	917.2	920.2	924.1	936.1	938.1
22.5°	894.2	898.2	905.2	918.2	921.2
25°	870.3	874.2	883.2	898.2	901.2
27.5°	843.3	849.3	860.3	876.2	880.2
30°	815.4	821.4	834.3	851.3	857.3
32.5°	785.4	793.4	808.4	827.3	833.3
35°	754.5	763.5	779.4	800.4	808.4
37.5°	721.6	731.5	750.5	773.4	783.4
40°	687.6	699.6	719.6	746.5	757.5
42.5°	653.7	664.7	689.6	718.6	730.5
45°	618.8	631.7	657.7	690.6	702.6
47.5°	582.8	595.8	626.7	661.7	672.6
50°	546.9	559.9	594.8	631.7	644.7
52.5°	508.0	524.9	564.9	601.8	614.8
55°	473.1	489.0	529.9	571.9	585.8
57.5°	433.1	452.1	497.0	540.9	555.9
60°	396.2	416.2	464.1	509.0	523.9
62.5°	358.3	380.2	431.1	477.0	494.0
65°	317.4	344.3	398.2	445.1	462.1
67.5°	280.4	308.4	365.3	413.2	428.1
70°	238.5	272.5	330.3	378.2	395.2
72.5°	202.6	236.5	297.4	344.3	361.3
75°	164.7	201.6	262.5	309.4	324.3
77.5°	126.7	167.7	228.5	264.5	269.5
80°	90.8	133.7	189.6	210.6	217.6
82.5°	63.9	102.8	139.7	153.7	157.7
85°	34.9	67.9	87.8	93.8	93.8
87.5°	15.0	28.9	34.9	35.9	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)