

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: P276136

Luminaire Tested: **24CZ2-30-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276136
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-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2914.6 lumens
Efficiency: N/A
Efficacy: 131.7 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

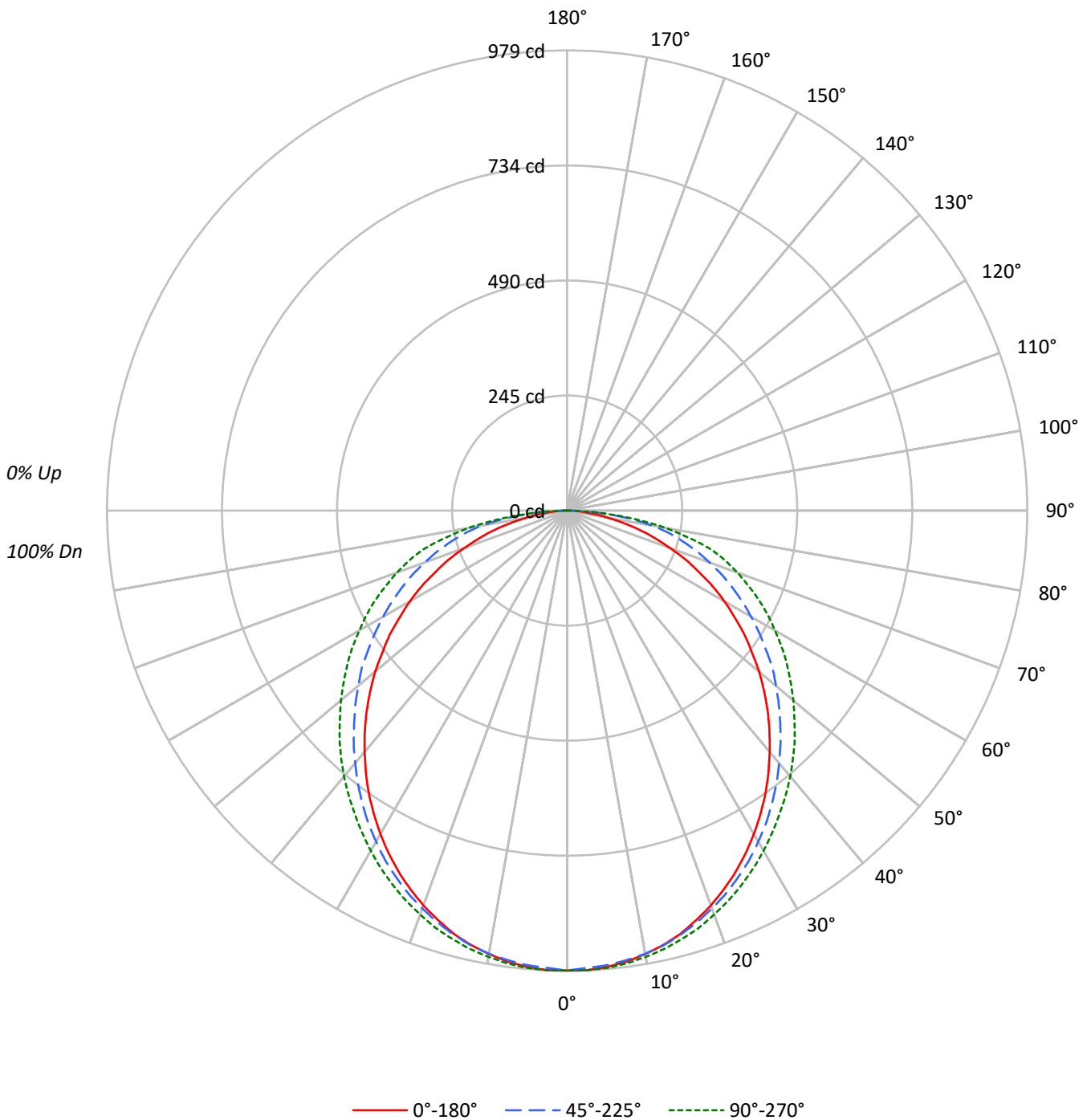
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1317	1317	1317
5°	1316	1311	1319
10°	1309	1308	1317
15°	1298	1301	1314
20°	1280	1290	1309
25°	1259	1278	1304
30°	1235	1263	1298
35°	1208	1248	1294
40°	1177	1232	1297
45°	1148	1220	1303
50°	1116	1214	1315
55°	1082	1212	1339
60°	1039	1217	1374
65°	985	1236	1434
70°	915	1267	1515
75°	834	1330	1643
80°	686	1432	1643
85°	525	1321	1411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	3.2
10°-20°	264.2	9.1
20°-30°	397.6	13.6
30°-40°	476.5	16.3
40°-50°	496.5	17.0
50°-60°	462.0	15.9
60°-70°	380.5	13.1
70°-80°	259.1	8.9
80°-90°	85.5	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°	754.4	25.9
0°-40°	1230.9	42.2
0°-60°	2189.4	75.1
0°-90°	2914.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2914.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	975	975	971	976	977	93
15°	932	933	934	943	944	263
25°	848	852	861	876	878	390
35°	735	744	760	780	788	460
45°	603	616	641	673	685	465
55°	461	477	516	557	571	411
65°	309	336	388	434	450	307
75°	160	196	256	302	316	169
85°	34	66	86	91	91	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	978.6	978.6	978.6	978.6	978.6
2.5°	978.6	978.6	973.7	978.6	978.6
5°	974.7	974.7	970.8	975.7	976.6
7.5°	967.9	968.8	965.0	970.8	971.8
10°	958.1	959.1	957.2	963.0	964.0
12.5°	946.5	947.4	947.4	954.3	955.2
15°	931.9	932.9	933.8	942.6	943.6
17.5°	913.4	916.3	918.3	929.0	930.9
20°	893.9	896.9	900.8	912.4	914.4
22.5°	871.6	875.5	882.3	894.9	897.8
25°	848.2	852.1	860.9	875.5	878.4
27.5°	822.0	827.8	838.5	854.1	858.0
30°	794.7	800.6	813.2	829.7	835.6
32.5°	765.5	773.3	787.9	806.4	812.2
35°	735.4	744.1	759.7	780.1	787.9
37.5°	703.3	713.0	731.5	753.9	763.6
40°	670.2	681.9	701.3	727.6	738.3
42.5°	637.1	647.8	672.2	700.4	712.0
45°	603.1	615.7	641.0	673.1	684.8
47.5°	568.1	580.7	610.9	644.9	655.6
50°	533.1	545.7	579.8	615.7	628.4
52.5°	495.1	511.7	550.6	586.6	599.2
55°	461.1	476.6	516.5	557.4	571.0
57.5°	422.2	440.7	484.4	527.2	541.8
60°	386.2	405.6	452.3	496.1	510.7
62.5°	349.2	370.6	420.2	465.0	481.5
65°	309.3	335.6	388.1	433.8	450.4
67.5°	273.3	300.6	356.0	402.7	417.3
70°	232.5	265.6	322.0	368.7	385.2
72.5°	197.5	230.5	289.9	335.6	352.1
75°	160.5	196.5	255.8	301.5	316.1
77.5°	123.5	163.4	222.8	257.8	262.6
80°	88.5	130.3	184.8	205.2	212.1
82.5°	62.3	100.2	136.2	149.8	153.7
85°	34.0	66.1	85.6	91.4	91.4
87.5°	14.6	28.2	34.0	35.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)