

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: P276181

Luminaire Tested: **24CZ2-30HE-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276181
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-L92765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2631.8 lumens
Efficiency: N/A
Efficacy: 131.6 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

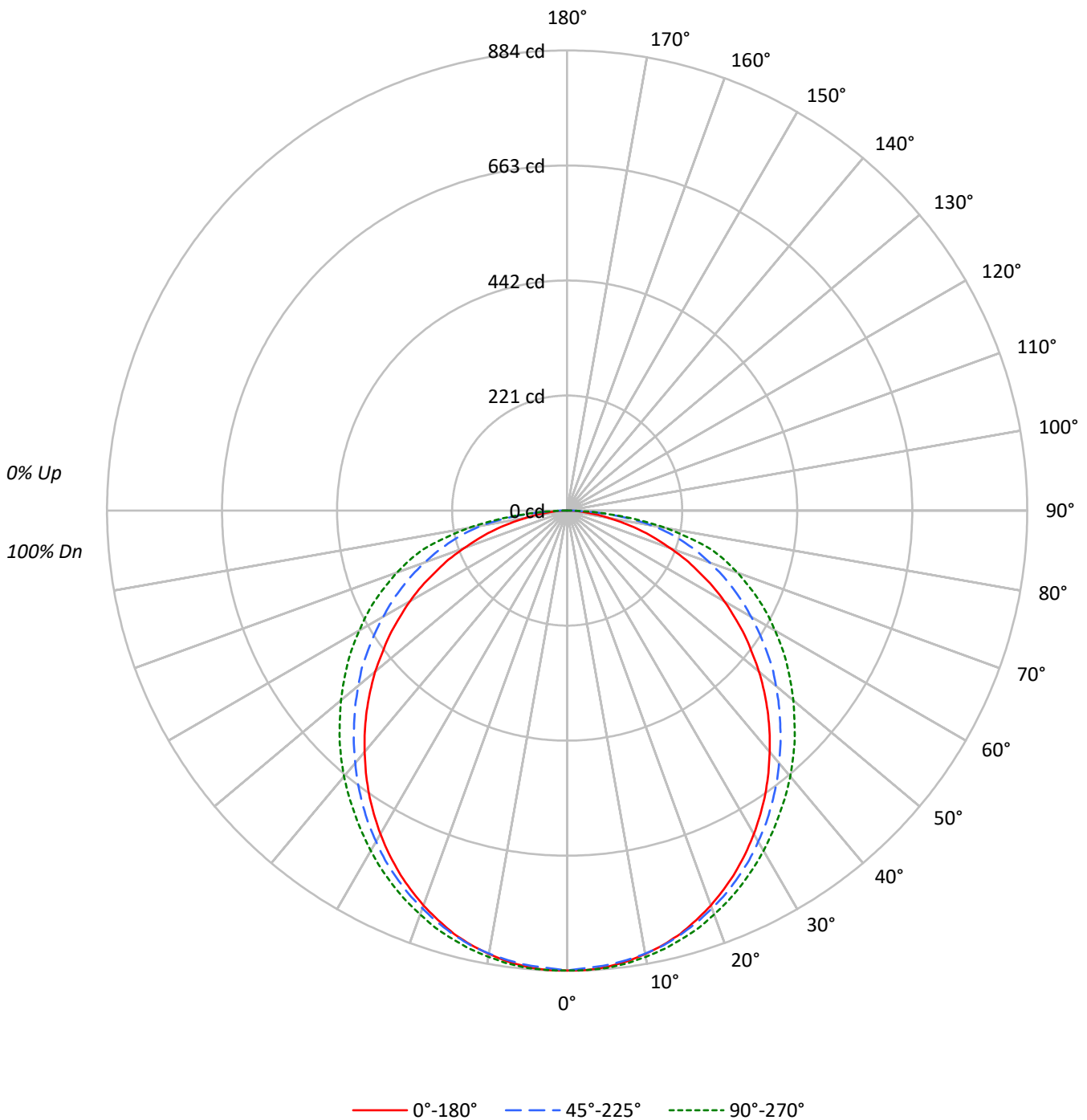
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276181

CATALOG NUMBER: 24CZ2-30HE-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P276181

CATALOG NUMBER: 24CZ2-30HE-UNV-L92765-W2A1-U-4500K

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°	1189	1189	1189
5°	1189	1184	1191
10°	1182	1181	1189
15°	1172	1175	1187
20°	1156	1165	1182
25°	1137	1154	1177
30°	1115	1141	1172
35°	1091	1127	1169
40°	1063	1112	1171
45°	1036	1101	1177
50°	1007	1096	1188
55°	977	1094	1209
60°	938	1099	1241
65°	889	1116	1295
70°	826	1144	1368
75°	753	1201	1484
80°	619	1293	1484
85°	474	1193	1275



TEST NUMBER: P276181

CATALOG NUMBER: 24CZ2-30HE-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.2
10°-20°	238.6	9.1
20°-30°	359.0	13.6
30°-40°	430.3	16.3
40°-50°	448.4	17.0
50°-60°	417.2	15.9
60°-70°	343.6	13.1
70°-80°	234.0	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°	681.2	25.9
0°-40°	1111.4	42.2
0°-60°	1976.9	75.1
0°-90°	2631.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2631.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	880	880	877	881	882	84
15°	841	842	843	851	852	237
25°	766	769	777	790	793	353
35°	664	672	686	704	712	415
45°	545	556	579	608	618	420
55°	416	430	466	503	516	371
65°	279	303	350	392	407	277
75°	145	177	231	272	286	153
85°	31	60	77	83	83	38
90°	0	0	0	0	0	



TEST NUMBER: P276181

CATALOG NUMBER: 24CZ2-30HE-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	883.6	883.6	883.6	883.6	883.6
2.5°	883.6	883.6	879.2	883.6	883.6
5°	880.1	880.1	876.6	881.0	881.9
7.5°	873.9	874.8	871.3	876.6	877.5
10°	865.2	866.0	864.3	869.6	870.4
12.5°	854.6	855.5	855.5	861.6	862.5
15°	841.4	842.3	843.2	851.1	852.0
17.5°	824.8	827.4	829.2	838.8	840.6
20°	807.2	809.8	813.3	823.9	825.6
22.5°	787.0	790.5	796.7	808.1	810.7
25°	765.9	769.4	777.3	790.5	793.1
27.5°	742.2	747.5	757.1	771.2	774.7
30°	717.6	722.9	734.3	749.2	754.5
32.5°	691.3	698.3	711.5	728.1	733.4
35°	664.0	671.9	686.0	704.4	711.5
37.5°	635.0	643.8	660.5	680.7	689.5
40°	605.2	615.7	633.3	657.0	666.7
42.5°	575.3	585.0	606.9	632.4	642.9
45°	544.6	556.0	578.8	607.8	618.4
47.5°	512.9	524.4	551.6	582.3	592.0
50°	481.3	492.7	523.5	556.0	567.4
52.5°	447.1	462.0	497.1	529.6	541.1
55°	416.3	430.4	466.4	503.3	515.6
57.5°	381.2	397.9	437.4	476.1	489.2
60°	348.7	366.3	408.4	448.0	461.1
62.5°	315.3	334.6	379.4	419.8	434.8
65°	279.3	303.0	350.5	391.7	406.7
67.5°	246.8	271.4	321.5	363.6	376.8
70°	209.9	239.8	290.7	332.9	347.8
72.5°	178.3	208.2	261.7	303.0	318.0
75°	144.9	177.4	231.0	272.3	285.5
77.5°	111.5	147.6	201.1	232.8	237.2
80°	79.9	117.7	166.9	185.3	191.5
82.5°	56.2	90.5	123.0	135.3	138.8
85°	30.7	59.7	77.3	82.6	82.6
87.5°	13.2	25.5	30.7	31.6	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)