

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: P276913

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45HE-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2898.7 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

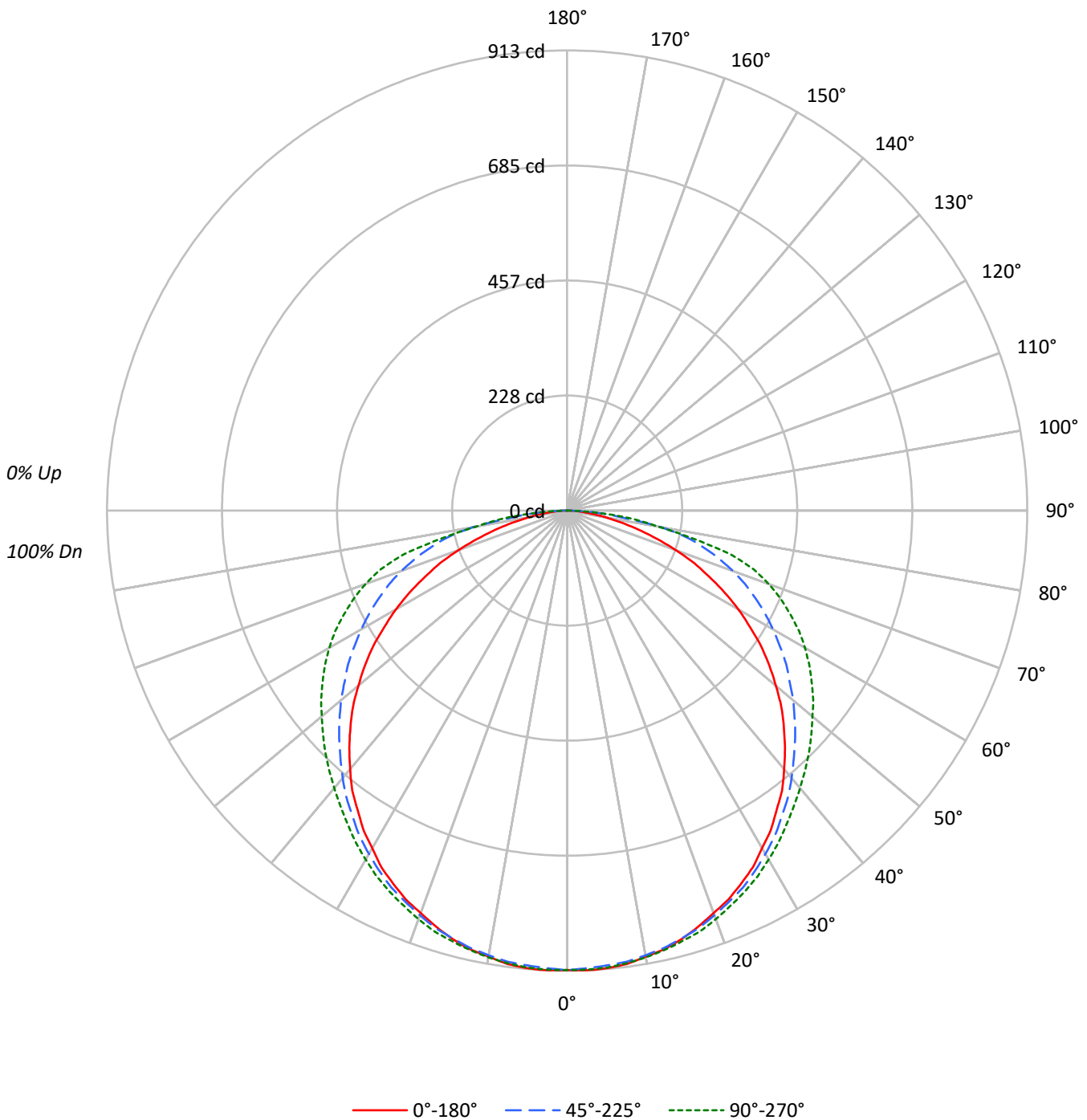
Input Watts (W): 31.992
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276913

CATALOG NUMBER: 24CZ2-45HE-RDP-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P276913

CATALOG NUMBER: 24CZ2-45HE-RDP-UNV-L82765-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	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1227	1227	1227
5°	1231	1223	1229
10°	1228	1224	1230
15°	1226	1224	1232
20°	1217	1223	1235
25°	1212	1225	1238
30°	1202	1222	1242
35°	1190	1219	1247
40°	1177	1217	1263
45°	1157	1217	1291
50°	1132	1225	1330
55°	1103	1244	1390
60°	1056	1269	1466
65°	989	1314	1557
70°	899	1375	1674
75°	763	1450	1749
80°	601	1460	1415
85°	445	1110	1243



TEST NUMBER: P276913

CATALOG NUMBER: 24CZ2-45HE-RDP-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.0
10°-20°	248.9	8.6
20°-30°	380.6	13.1
30°-40°	465.2	16.0
40°-50°	495.8	17.1
50°-60°	474.1	16.4
60°-70°	401.6	13.9
70°-80°	269.9	9.3
80°-90°	76.1	2.6
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°	715.9	24.7
0°-40°	1181.1	40.7
0°-60°	2151.1	74.2
0°-90°	2898.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	912	910	906	910	910	87
15°	880	880	878	886	884	248
25°	817	820	825	832	834	376
35°	725	730	742	756	759	454
45°	608	618	640	667	679	469
55°	470	487	530	572	592	419
65°	311	342	413	467	489	308
75°	147	200	279	326	336	157
85°	29	59	72	78	80	36
90°	0	0	0	0	0	



TEST NUMBER: P276913

CATALOG NUMBER: 24CZ2-45HE-RDP-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	911.6	911.6	911.6	911.6	911.6
2.5°	913.0	913.0	908.7	911.6	911.6
5°	911.6	910.1	905.8	910.1	910.1
7.5°	907.3	905.8	902.9	907.3	905.8
10°	898.6	898.6	895.8	900.1	900.1
12.5°	891.4	890.0	888.6	894.3	892.9
15°	879.9	879.9	878.5	885.7	884.2
17.5°	865.6	867.0	868.4	874.2	875.6
20°	849.7	852.6	854.1	862.7	862.7
22.5°	835.4	836.8	839.7	848.3	848.3
25°	816.7	819.5	825.3	832.5	833.9
27.5°	798.0	799.4	806.6	816.7	818.1
30°	773.5	777.9	786.5	798.0	799.4
32.5°	752.0	756.3	766.3	777.9	780.7
35°	724.7	730.4	741.9	756.3	759.2
37.5°	700.2	704.5	718.9	734.7	739.0
40°	670.0	678.6	693.0	711.7	718.9
42.5°	639.8	648.4	665.7	690.1	698.8
45°	608.2	618.3	639.8	667.1	678.6
47.5°	576.6	588.1	612.5	644.1	657.1
50°	540.6	555.0	585.2	621.1	635.5
52.5°	506.1	523.4	556.4	596.7	615.4
55°	470.2	487.4	530.5	572.2	592.4
57.5°	429.9	452.9	500.4	547.8	569.4
60°	392.5	414.1	471.6	523.4	544.9
62.5°	352.3	381.0	442.8	497.5	519.0
65°	310.6	342.2	412.6	467.3	488.9
67.5°	273.2	307.7	382.5	437.1	458.7
70°	228.6	271.7	349.4	404.0	425.6
72.5°	186.9	234.4	314.9	368.1	388.2
75°	146.7	199.9	278.9	326.4	336.4
77.5°	109.3	165.3	241.6	261.7	254.5
80°	77.6	132.3	188.4	178.3	182.6
82.5°	50.3	100.6	116.5	132.3	136.6
85°	28.8	58.9	71.9	77.6	80.5
87.5°	12.9	21.6	28.8	28.8	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)