

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: P276899

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276899
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: 24CZ2-35HE-RDP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2340.1 lumens
Efficiency: N/A
Efficacy: 92.5 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

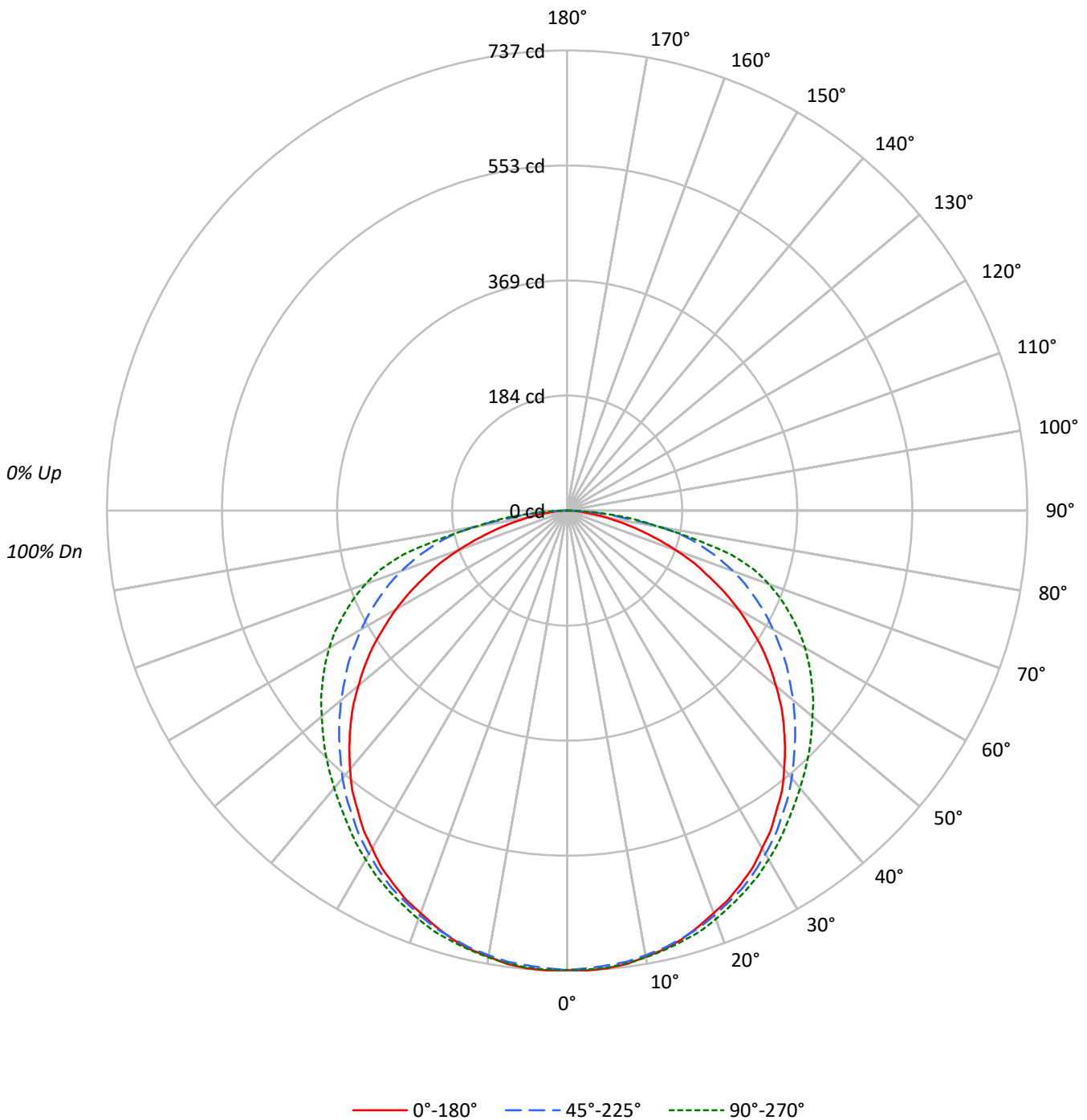
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276899

CATALOG NUMBER: 24CZ2-35HE-RDP-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P276899

CATALOG NUMBER: 24CZ2-35HE-RDP-UNV-L82765-W2A1-U-6500K

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°	990	990	990
5°	994	988	992
10°	991	988	993
15°	990	988	994
20°	982	987	997
25°	979	989	999
30°	970	986	1003
35°	961	984	1007
40°	950	983	1019
45°	934	983	1043
50°	913	989	1074
55°	890	1005	1122
60°	853	1024	1184
65°	798	1060	1256
70°	726	1110	1352
75°	616	1171	1412
80°	486	1179	1142
85°	358	895	1003



TEST NUMBER: P276899

CATALOG NUMBER: 24CZ2-35HE-RDP-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.0
10°-20°	200.9	8.6
20°-30°	307.2	13.1
30°-40°	375.6	16.0
40°-50°	400.3	17.1
50°-60°	382.7	16.4
60°-70°	324.2	13.9
70°-80°	217.9	9.3
80°-90°	61.5	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°	577.9	24.7
0°-40°	953.5	40.7
0°-60°	1736.5	74.2
0°-90°	2340.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2340.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	736	735	731	735	735	70
15°	710	710	709	715	714	200
25°	659	662	666	672	673	304
35°	585	590	599	610	613	366
45°	491	499	516	539	548	379
55°	380	394	428	462	478	338
65°	251	276	333	377	395	249
75°	118	161	225	264	272	127
85°	23	48	58	63	65	29
90°	0	0	0	0	0	



TEST NUMBER: P276899

CATALOG NUMBER: 24CZ2-35HE-RDP-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	735.9	735.9	735.9	735.9	735.9
2.5°	737.1	737.1	733.6	735.9	735.9
5°	735.9	734.7	731.3	734.7	734.7
7.5°	732.4	731.3	728.9	732.4	731.3
10°	725.5	725.5	723.1	726.6	726.6
12.5°	719.6	718.5	717.3	722.0	720.8
15°	710.4	710.4	709.2	715.0	713.8
17.5°	698.8	699.9	701.1	705.7	706.9
20°	686.0	688.3	689.5	696.4	696.4
22.5°	674.4	675.5	677.9	684.8	684.8
25°	659.3	661.6	666.3	672.1	673.2
27.5°	644.2	645.4	651.2	659.3	660.5
30°	624.5	627.9	634.9	644.2	645.4
32.5°	607.1	610.5	618.7	627.9	630.3
35°	585.0	589.6	598.9	610.5	612.9
37.5°	565.3	568.8	580.4	593.1	596.6
40°	540.9	547.9	559.5	574.6	580.4
42.5°	516.5	523.5	537.4	557.1	564.1
45°	491.0	499.1	516.5	538.6	547.9
47.5°	465.4	474.7	494.5	520.0	530.4
50°	436.4	448.0	472.4	501.4	513.0
52.5°	408.6	422.5	449.2	481.7	496.8
55°	379.6	393.5	428.3	462.0	478.2
57.5°	347.1	365.6	403.9	442.2	459.6
60°	316.9	334.3	380.7	422.5	439.9
62.5°	284.4	307.6	357.5	401.6	419.0
65°	250.7	276.3	333.1	377.2	394.6
67.5°	220.5	248.4	308.8	352.9	370.3
70°	184.6	219.4	282.1	326.2	343.6
72.5°	150.9	189.2	254.2	297.1	313.4
75°	118.4	161.3	225.2	263.5	271.6
77.5°	88.2	133.5	195.0	211.3	205.4
80°	62.7	106.8	152.1	143.9	147.4
82.5°	40.6	81.3	94.0	106.8	110.3
85°	23.2	47.6	58.0	62.7	65.0
87.5°	10.4	17.4	23.2	23.2	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)