

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: P276898

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276898
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-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2334.4 lumens
Efficiency: N/A
Efficacy: 94.0 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

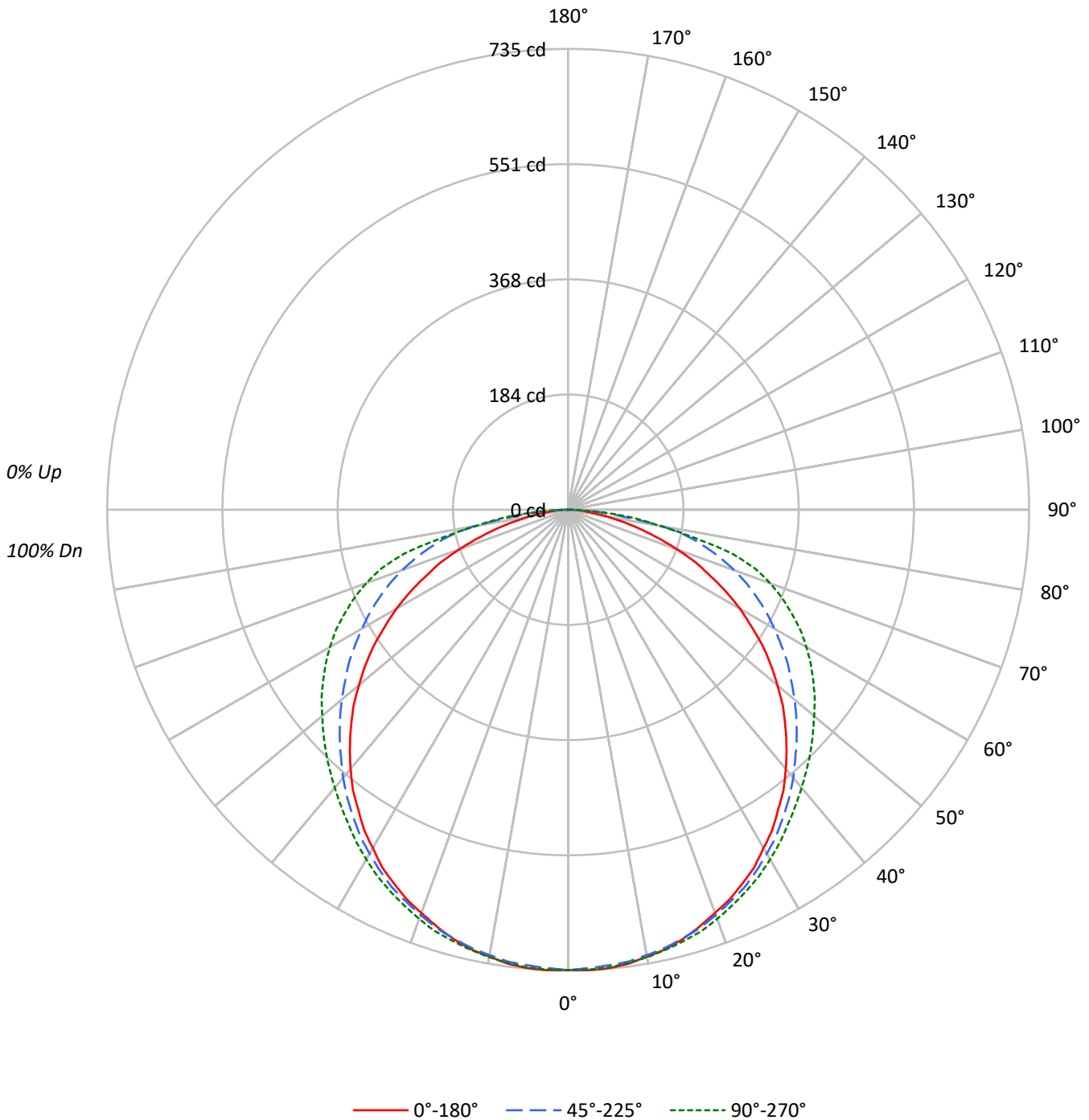
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	988	988	988
5°	991	985	990
10°	989	986	990
15°	987	986	992
20°	980	985	995
25°	976	987	997
30°	968	984	1000
35°	959	981	1004
40°	948	980	1017
45°	932	981	1040
50°	911	987	1071
55°	888	1002	1119
60°	851	1022	1181
65°	796	1058	1253
70°	724	1107	1348
75°	614	1168	1408
80°	484	1175	1140
85°	358	894	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	3.0
10°-20°	200.4	8.6
20°-30°	306.5	13.1
30°-40°	374.7	16.0
40°-50°	399.3	17.1
50°-60°	381.8	16.4
60°-70°	323.4	13.9
70°-80°	217.4	9.3
80°-90°	61.3	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°	576.5	24.7
0°-40°	951.2	40.7
0°-60°	1732.3	74.2
0°-90°	2334.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2334.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	734	733	730	733	733	70
15°	709	709	708	713	712	200
25°	658	660	665	670	672	303
35°	584	588	598	609	611	366
45°	490	498	515	537	546	378
55°	379	392	427	461	477	337
65°	250	276	332	376	394	248
75°	118	161	225	263	271	126
85°	23	48	58	62	65	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.1	734.1	734.1	734.1	734.1
2.5°	735.3	735.3	731.8	734.1	734.1
5°	734.1	732.9	729.5	732.9	732.9
7.5°	730.6	729.5	727.1	730.6	729.5
10°	723.7	723.7	721.4	724.8	724.8
12.5°	717.9	716.7	715.6	720.2	719.0
15°	708.6	708.6	707.5	713.3	712.1
17.5°	697.0	698.2	699.4	704.0	705.1
20°	684.3	686.6	687.8	694.7	694.7
22.5°	672.7	673.9	676.2	683.1	683.1
25°	657.7	660.0	664.6	670.4	671.6
27.5°	642.6	643.8	649.6	657.7	658.8
30°	622.9	626.4	633.4	642.6	643.8
32.5°	605.6	609.0	617.2	626.4	628.7
35°	583.6	588.2	597.5	609.0	611.4
37.5°	563.9	567.4	578.9	591.7	595.2
40°	539.6	546.5	558.1	573.2	578.9
42.5°	515.3	522.2	536.1	555.8	562.7
45°	489.8	497.9	515.3	537.3	546.5
47.5°	464.3	473.6	493.3	518.7	529.2
50°	435.4	446.9	471.3	500.2	511.8
52.5°	407.6	421.5	448.1	480.5	495.6
55°	378.6	392.5	427.3	460.8	477.0
57.5°	346.2	364.7	402.9	441.2	458.5
60°	316.1	333.5	379.8	421.5	438.8
62.5°	283.7	306.8	356.6	400.6	418.0
65°	250.1	275.6	332.3	376.3	393.7
67.5°	220.0	247.8	308.0	352.0	369.4
70°	184.1	218.8	281.4	325.4	342.7
72.5°	150.5	188.7	253.6	296.4	312.6
75°	118.1	160.9	224.6	262.8	270.9
77.5°	88.0	133.2	194.5	210.7	204.9
80°	62.5	106.5	151.7	143.6	147.1
82.5°	40.5	81.1	93.8	106.5	110.0
85°	23.2	47.5	57.9	62.5	64.8
87.5°	10.4	17.4	23.2	23.2	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)