

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: P263234

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-SQP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2326.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

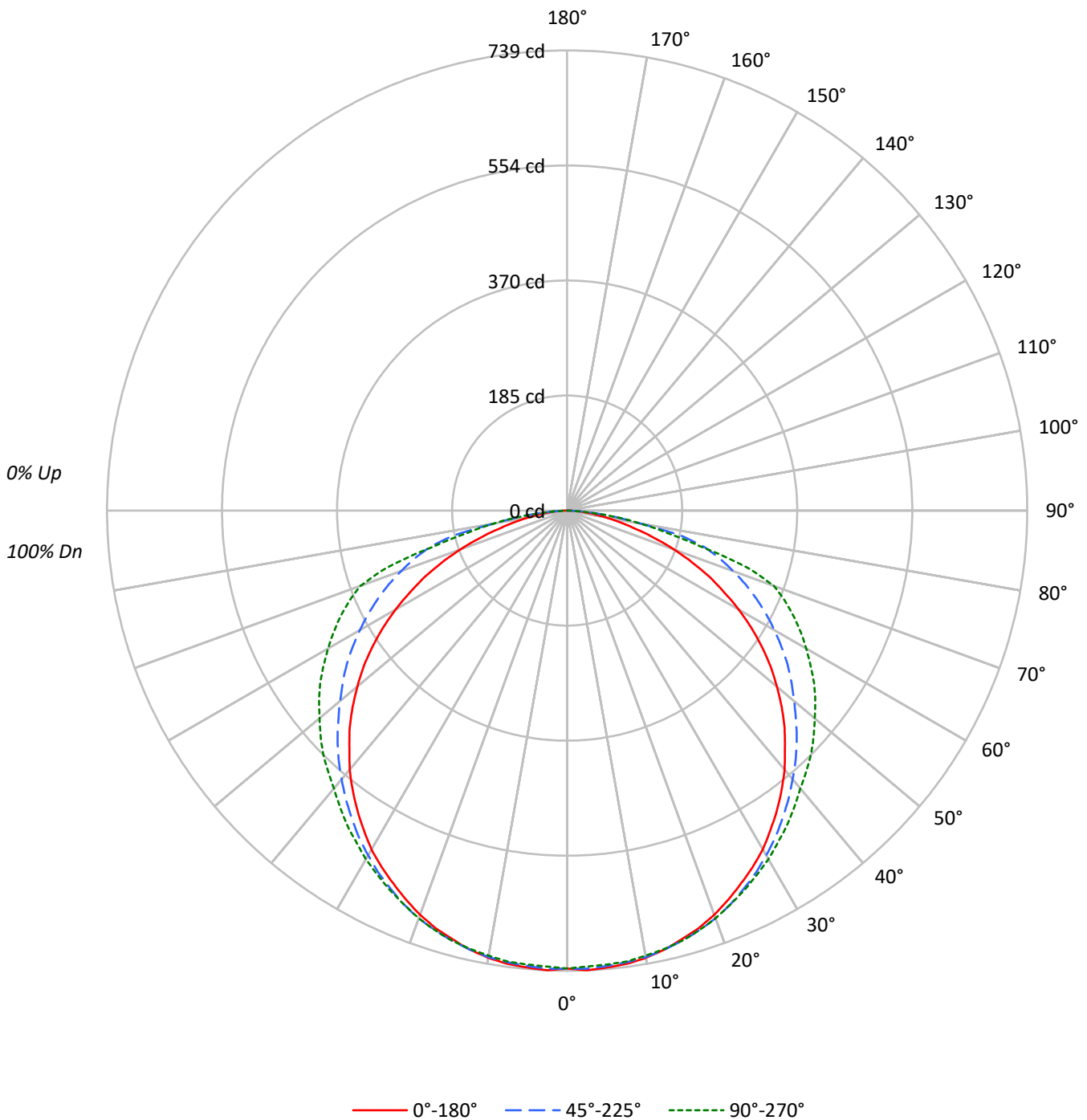
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	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	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	989	989	989
5°	995	991	988
10°	996	995	991
15°	992	996	996
20°	989	998	998
25°	981	995	999
30°	976	993	1004
35°	965	991	1012
40°	954	990	1023
45°	940	992	1054
50°	920	996	1086
55°	896	1015	1136
60°	857	1035	1193
65°	803	1067	1278
70°	718	1115	1389
75°	593	1193	1149
80°	484	921	931
85°	389	611	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.0
10°-20°	201.5	8.7
20°-30°	308.0	13.2
30°-40°	376.7	16.2
40°-50°	403.0	17.3
50°-60°	385.9	16.6
60°-70°	326.5	14.0
70°-80°	206.9	8.9
80°-90°	47.6	2.0
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°	579.3	24.9
0°-40°	956.0	41.1
0°-60°	1745.0	75.0
0°-90°	2326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	736	733	734	733	732	70
15°	712	711	715	715	715	201
25°	661	661	670	673	673	305
35°	588	591	603	612	616	368
45°	494	502	521	543	554	380
55°	382	394	432	469	484	341
65°	252	276	335	381	401	249
75°	114	161	230	228	221	124
85°	25	38	40	36	37	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	735.3	735.3	735.3	735.3	735.3
2.5°	738.9	735.3	736.5	735.3	732.9
5°	736.5	732.9	734.1	732.9	731.7
7.5°	734.1	730.5	731.7	730.5	730.5
10°	729.3	725.7	728.1	726.9	725.7
12.5°	722.1	719.7	722.1	720.9	720.9
15°	712.5	711.3	714.9	714.9	714.9
17.5°	702.9	701.7	706.5	706.5	706.5
20°	690.8	689.6	696.8	696.8	696.8
22.5°	676.4	675.2	684.8	684.8	684.8
25°	660.8	660.8	670.4	672.8	672.8
27.5°	645.2	645.2	656.0	659.6	659.6
30°	628.4	628.4	639.2	644.0	646.4
32.5°	607.9	610.3	622.4	628.4	630.8
35°	587.5	591.1	603.1	611.5	616.3
37.5°	565.9	569.5	583.9	593.5	599.5
40°	543.1	547.9	563.5	575.5	582.7
42.5°	517.8	525.0	543.1	558.7	568.3
45°	493.8	502.2	521.4	543.1	553.9
47.5°	467.4	477.0	498.6	526.2	537.1
50°	439.7	449.3	475.8	507.0	519.0
52.5°	412.1	422.9	454.2	487.8	502.2
55°	382.1	394.1	432.5	468.6	484.2
57.5°	350.8	365.2	408.5	446.9	463.8
60°	318.4	336.4	384.5	425.3	443.3
62.5°	284.7	306.4	360.4	403.7	422.9
65°	252.3	276.3	335.2	380.9	401.3
67.5°	217.5	247.5	310.0	359.2	378.5
70°	182.6	217.5	283.5	334.0	353.2
72.5°	147.8	189.8	257.1	302.8	302.8
75°	114.1	161.0	229.5	228.3	221.1
77.5°	86.5	134.6	188.6	161.0	162.2
80°	62.5	108.1	118.9	118.9	120.1
82.5°	42.1	82.9	76.9	75.7	78.1
85°	25.2	38.4	39.6	36.0	37.2
87.5°	12.0	13.2	10.8	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)