

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: P263315

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263315
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-LD5-30SE-SQP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2005.0 lumens
Efficiency: N/A
Efficacy: 91.0 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

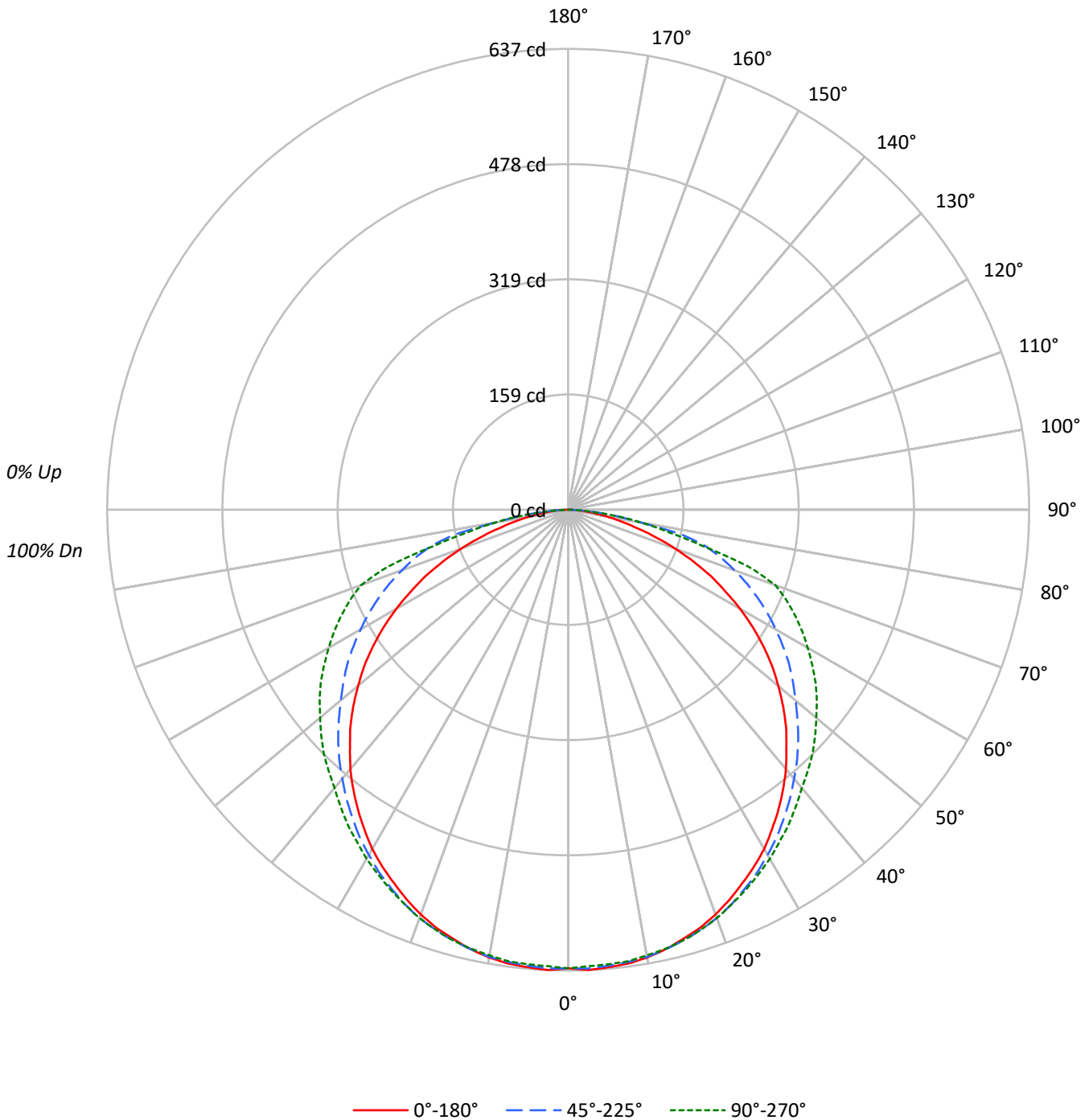
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	853	853	853
5°	858	855	852
10°	859	857	855
15°	855	858	858
20°	853	860	860
25°	846	858	861
30°	841	856	866
35°	832	854	873
40°	822	853	882
45°	810	855	908
50°	793	858	937
55°	772	875	979
60°	738	892	1028
65°	692	920	1101
70°	619	961	1198
75°	512	1028	991
80°	418	794	803
85°	335	528	496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	3.0
10°-20°	173.7	8.7
20°-30°	265.5	13.2
30°-40°	324.7	16.2
40°-50°	347.4	17.3
50°-60°	332.7	16.6
60°-70°	281.4	14.0
70°-80°	178.4	8.9
80°-90°	41.0	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°	499.4	24.9
0°-40°	824.1	41.1
0°-60°	1504.1	75.0
0°-90°	2005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	635	632	633	632	631	60
15°	614	613	616	616	616	173
25°	570	570	578	580	580	263
35°	506	510	520	527	531	317
45°	426	433	450	468	477	328
55°	329	340	373	404	417	294
65°	218	238	289	328	346	214
75°	98	139	198	197	191	107
85°	22	33	34	31	32	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	633.8	633.8	633.8	633.8	633.8
2.5°	636.9	633.8	634.9	633.8	631.7
5°	634.9	631.7	632.8	631.7	630.7
7.5°	632.8	629.7	630.7	629.7	629.7
10°	628.6	625.5	627.6	626.6	625.5
12.5°	622.4	620.4	622.4	621.4	621.4
15°	614.1	613.1	616.2	616.2	616.2
17.5°	605.9	604.8	609.0	609.0	609.0
20°	595.5	594.5	600.7	600.7	600.7
22.5°	583.1	582.0	590.3	590.3	590.3
25°	569.6	569.6	577.9	580.0	580.0
27.5°	556.1	556.1	565.5	568.6	568.6
30°	541.6	541.6	551.0	555.1	557.2
32.5°	524.0	526.1	536.5	541.6	543.7
35°	506.4	509.5	519.9	527.1	531.3
37.5°	487.8	490.9	503.3	511.6	516.8
40°	468.1	472.3	485.7	496.1	502.3
42.5°	446.4	452.6	468.1	481.6	489.9
45°	425.7	432.9	449.5	468.1	477.4
47.5°	402.9	411.2	429.8	453.6	462.9
50°	379.0	387.3	410.1	437.0	447.4
52.5°	355.2	364.5	391.5	420.5	432.9
55°	329.3	339.7	372.8	403.9	417.4
57.5°	302.4	314.8	352.1	385.3	399.8
60°	274.4	290.0	331.4	366.6	382.2
62.5°	245.4	264.1	310.7	348.0	364.5
65°	217.5	238.2	288.9	328.3	345.9
67.5°	187.5	213.3	267.2	309.7	326.2
70°	157.4	187.5	244.4	287.9	304.5
72.5°	127.4	163.6	221.6	261.0	261.0
75°	98.4	138.8	197.8	196.8	190.6
77.5°	74.6	116.0	162.6	138.8	139.8
80°	53.9	93.2	102.5	102.5	103.6
82.5°	36.2	71.5	66.3	65.2	67.3
85°	21.7	33.1	34.2	31.1	32.1
87.5°	10.4	11.4	9.3	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)