

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: P263313

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263313
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-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1895.0 lumens
Efficiency: N/A
Efficacy: 87.8 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

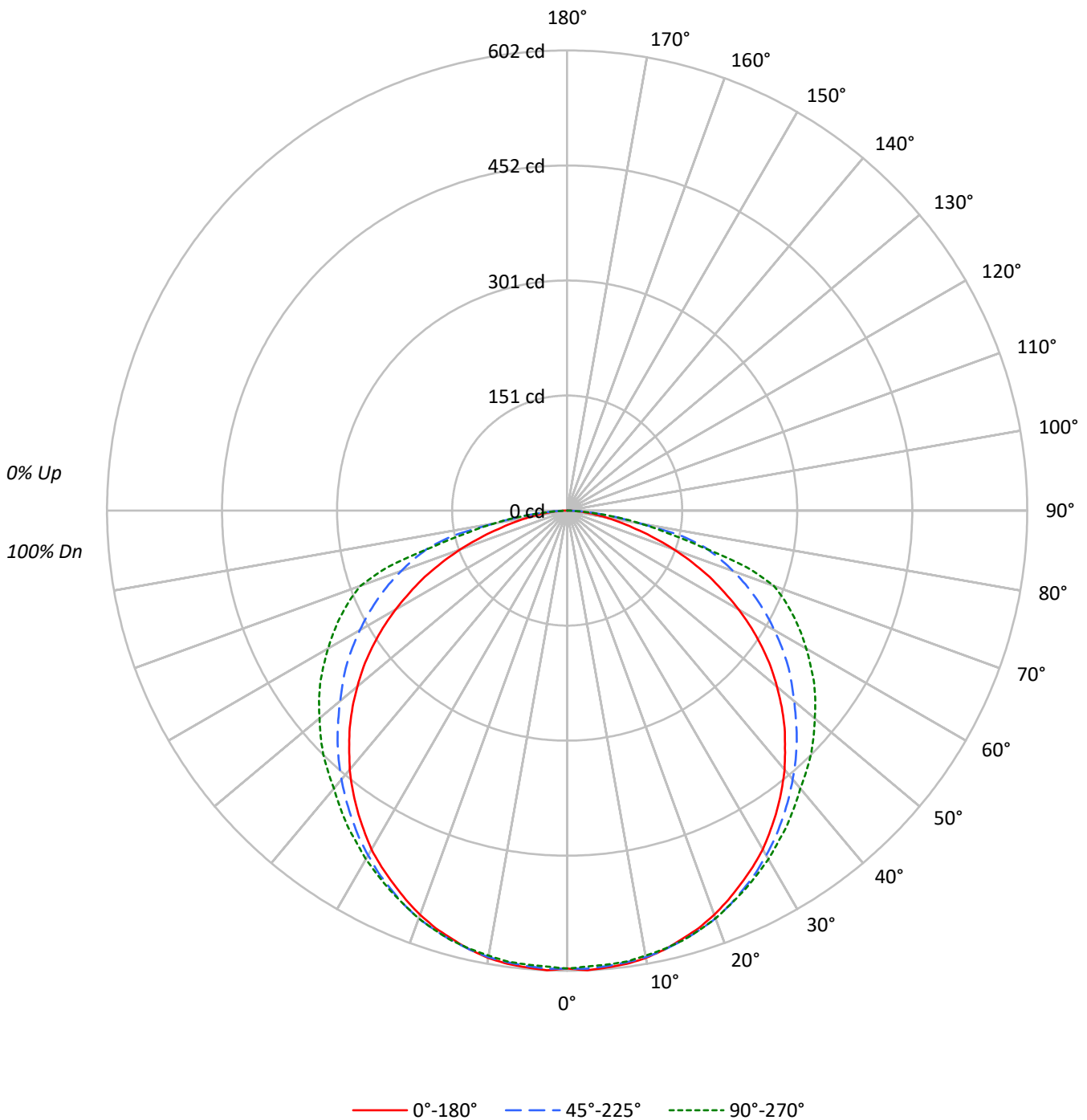
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	806	806	806
5°	810	808	805
10°	812	810	808
15°	808	811	811
20°	806	813	813
25°	799	811	814
30°	795	809	818
35°	786	807	825
40°	777	806	834
45°	766	808	859
50°	750	811	885
55°	730	827	925
60°	698	843	972
65°	655	869	1041
70°	585	909	1132
75°	483	972	936
80°	394	751	759
85°	318	499	468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	3.0
10°-20°	164.2	8.7
20°-30°	250.9	13.2
30°-40°	306.9	16.2
40°-50°	328.4	17.3
50°-60°	314.4	16.6
60°-70°	266.0	14.0
70°-80°	168.6	8.9
80°-90°	38.8	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°	472.0	24.9
0°-40°	778.8	41.1
0°-60°	1421.6	75.0
0°-90°	1895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	599	599	599	599	599	
5°	600	597	598	597	596	57
15°	580	580	582	582	582	164
25°	538	538	546	548	548	248
35°	479	482	491	498	502	299
45°	402	409	425	442	451	310
55°	311	321	352	382	394	278
65°	206	225	273	310	327	203
75°	93	131	187	186	180	101
85°	21	31	32	29	30	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	599.0	599.0	599.0	599.0	599.0
2.5°	602.0	599.0	600.0	599.0	597.1
5°	600.0	597.1	598.1	597.1	596.1
7.5°	598.1	595.1	596.1	595.1	595.1
10°	594.2	591.2	593.2	592.2	591.2
12.5°	588.3	586.3	588.3	587.3	587.3
15°	580.4	579.5	582.4	582.4	582.4
17.5°	572.6	571.6	575.6	575.6	575.6
20°	562.8	561.8	567.7	567.7	567.7
22.5°	551.1	550.1	557.9	557.9	557.9
25°	538.4	538.4	546.2	548.1	548.1
27.5°	525.6	525.6	534.4	537.4	537.4
30°	511.9	511.9	520.7	524.7	526.6
32.5°	495.3	497.2	507.0	511.9	513.9
35°	478.6	481.6	491.4	498.2	502.1
37.5°	461.0	464.0	475.7	483.5	488.4
40°	442.4	446.3	459.1	468.9	474.7
42.5°	421.9	427.7	442.4	455.2	463.0
45°	402.3	409.2	424.8	442.4	451.2
47.5°	380.8	388.6	406.2	428.7	437.5
50°	358.3	366.1	387.6	413.1	422.9
52.5°	335.7	344.5	370.0	397.4	409.2
55°	311.3	321.1	352.4	381.7	394.5
57.5°	285.8	297.6	332.8	364.1	377.8
60°	259.4	274.1	313.2	346.5	361.2
62.5°	232.0	249.6	293.6	328.9	344.5
65°	205.6	225.1	273.1	310.3	326.9
67.5°	177.2	201.6	252.5	292.7	308.3
70°	148.8	177.2	231.0	272.1	287.8
72.5°	120.4	154.7	209.5	246.7	246.7
75°	93.0	131.2	187.0	186.0	180.1
77.5°	70.5	109.6	153.7	131.2	132.1
80°	50.9	88.1	96.9	96.9	97.9
82.5°	34.3	67.5	62.6	61.7	63.6
85°	20.6	31.3	32.3	29.4	30.3
87.5°	9.8	10.8	8.8	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)