

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: P263365

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263365
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-LD5-30-SQP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1929.0 lumens
Efficiency: N/A
Efficacy: 93.9 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

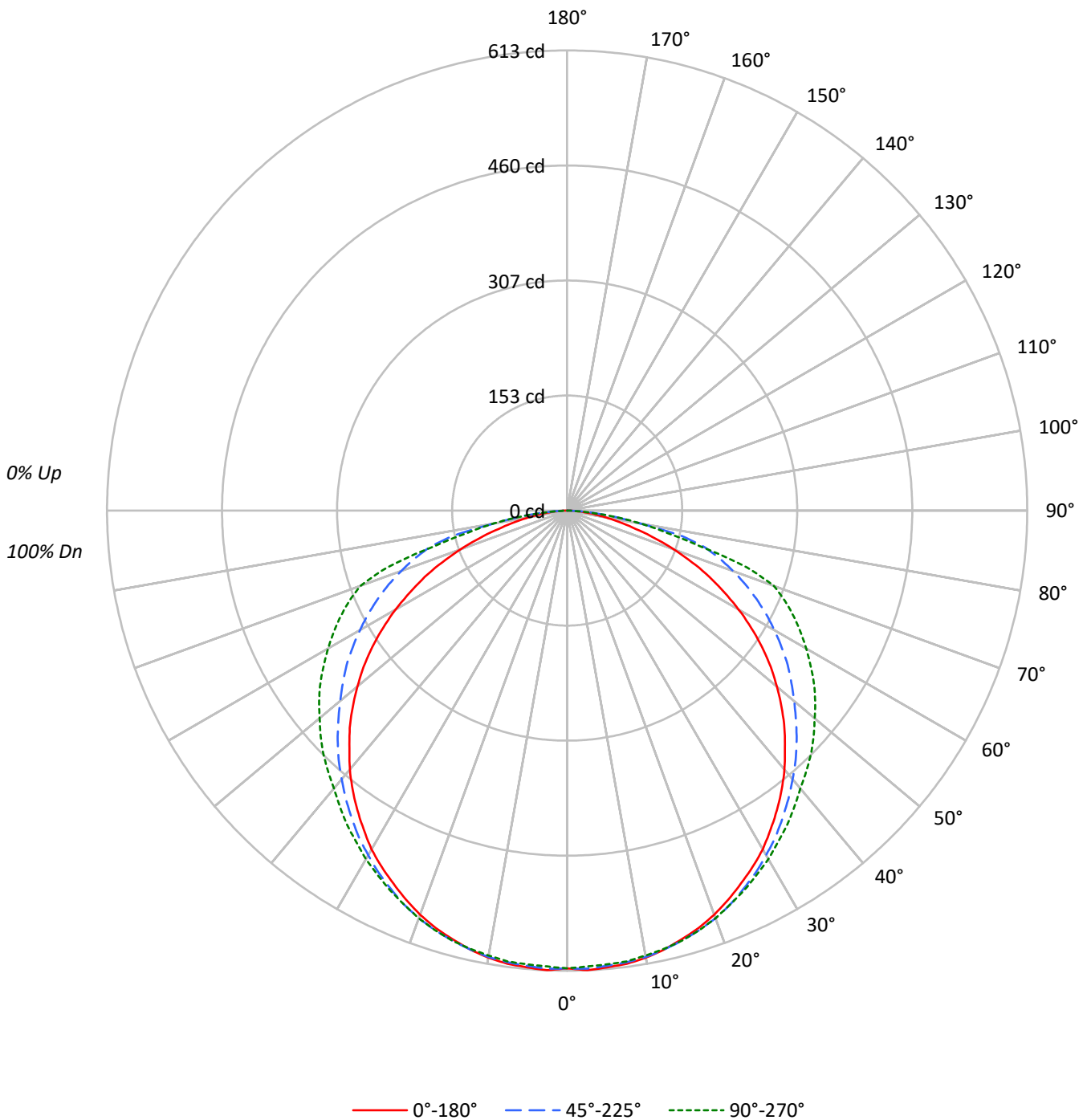
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	820	820	820
5°	825	822	820
10°	826	825	822
15°	823	826	826
20°	820	827	827
25°	814	825	828
30°	810	824	833
35°	800	822	840
40°	791	821	849
45°	779	823	874
50°	763	826	901
55°	743	841	942
60°	710	858	989
65°	666	885	1060
70°	596	925	1152
75°	492	989	953
80°	401	764	772
85°	323	508	477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	3.0
10°-20°	167.1	8.7
20°-30°	255.4	13.2
30°-40°	312.4	16.2
40°-50°	334.2	17.3
50°-60°	320.1	16.6
60°-70°	270.8	14.0
70°-80°	171.6	8.9
80°-90°	39.5	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°	480.4	24.9
0°-40°	792.8	41.1
0°-60°	1447.1	75.0
0°-90°	1929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	611	608	609	608	607	58
15°	591	590	593	593	593	167
25°	548	548	556	558	558	253
35°	487	490	500	507	511	305
45°	410	416	432	450	459	315
55°	317	327	359	389	402	283
65°	209	229	278	316	333	206
75°	95	134	190	189	183	103
85°	21	32	33	30	31	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	609.8	609.8	609.8	609.8	609.8
2.5°	612.8	609.8	610.8	609.8	607.8
5°	610.8	607.8	608.8	607.8	606.8
7.5°	608.8	605.8	606.8	605.8	605.8
10°	604.8	601.8	603.8	602.8	601.8
12.5°	598.8	596.8	598.8	597.8	597.8
15°	590.9	589.9	592.9	592.9	592.9
17.5°	582.9	581.9	585.9	585.9	585.9
20°	572.9	571.9	577.9	577.9	577.9
22.5°	561.0	560.0	567.9	567.9	567.9
25°	548.0	548.0	556.0	558.0	558.0
27.5°	535.1	535.1	544.0	547.0	547.0
30°	521.1	521.1	530.1	534.1	536.1
32.5°	504.2	506.2	516.1	521.1	523.1
35°	487.2	490.2	500.2	507.2	511.2
37.5°	469.3	472.3	484.2	492.2	497.2
40°	450.4	454.4	467.3	477.3	483.3
42.5°	429.4	435.4	450.4	463.3	471.3
45°	409.5	416.5	432.4	450.4	459.3
47.5°	387.6	395.6	413.5	436.4	445.4
50°	364.7	372.7	394.6	420.5	430.4
52.5°	341.8	350.7	376.6	404.5	416.5
55°	316.9	326.8	358.7	388.6	401.5
57.5°	290.9	302.9	338.8	370.7	384.6
60°	264.0	279.0	318.8	352.7	367.7
62.5°	236.1	254.1	298.9	334.8	350.7
65°	209.2	229.2	278.0	315.9	332.8
67.5°	180.3	205.3	257.1	297.9	313.9
70°	151.5	180.3	235.1	277.0	292.9
72.5°	122.6	157.4	213.2	251.1	251.1
75°	94.7	133.5	190.3	189.3	183.3
77.5°	71.7	111.6	156.4	133.5	134.5
80°	51.8	89.7	98.6	98.6	99.6
82.5°	34.9	68.8	63.8	62.8	64.8
85°	20.9	31.9	32.9	29.9	30.9
87.5°	10.0	11.0	9.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)