

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: P263073

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263073
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-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2032.0 lumens
Efficiency: N/A
Efficacy: 103.6 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

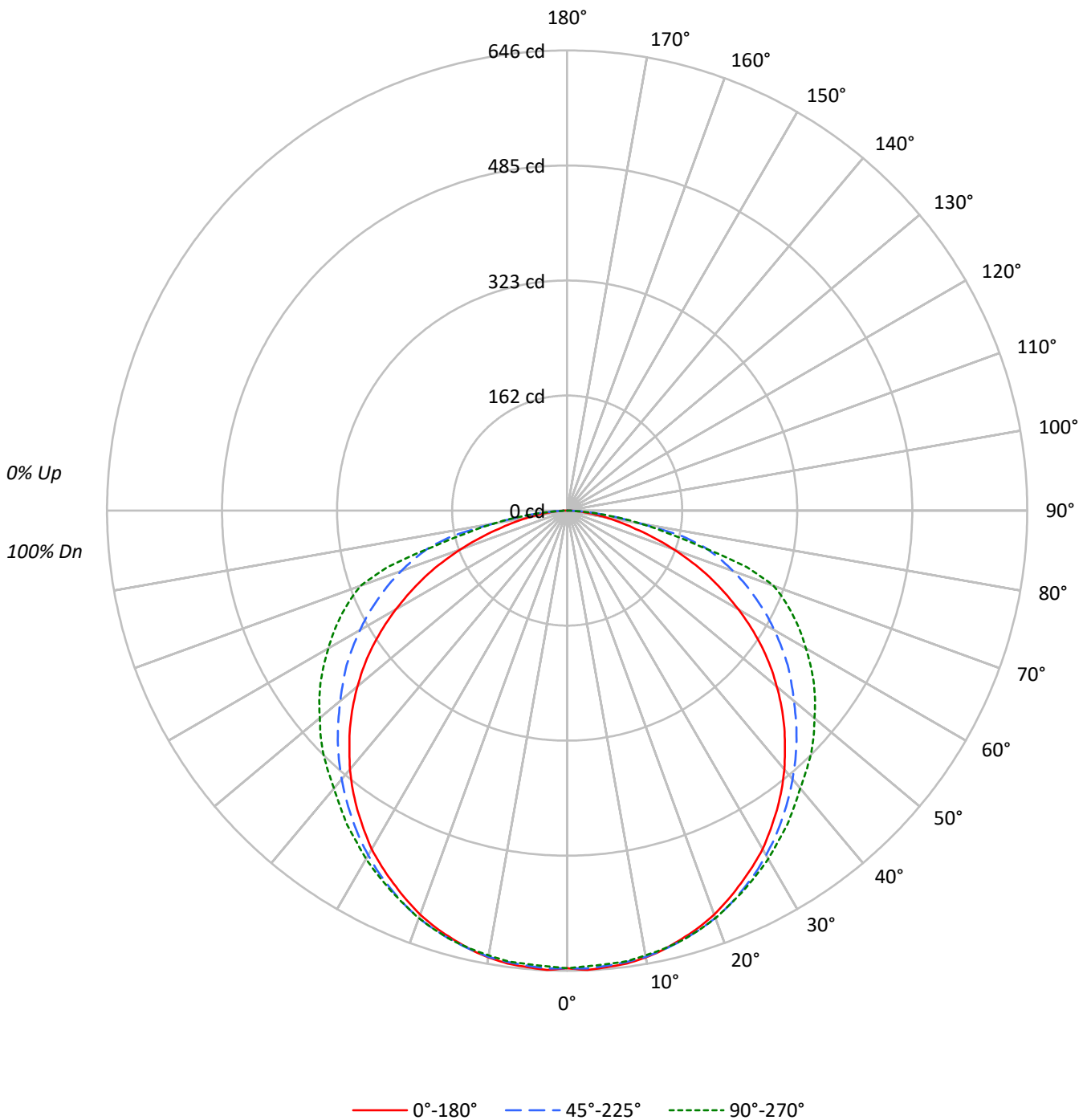
Input Watts (W): 19.623
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	864	864	864
5°	869	866	863
10°	870	869	866
15°	867	870	870
20°	864	872	872
25°	857	870	873
30°	853	868	877
35°	843	865	884
40°	833	865	894
45°	821	867	921
50°	804	870	949
55°	783	886	992
60°	748	904	1042
65°	702	932	1116
70°	627	974	1214
75°	518	1042	1004
80°	423	805	814
85°	340	534	502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	3.0
10°-20°	176.0	8.7
20°-30°	269.1	13.2
30°-40°	329.1	16.2
40°-50°	352.1	17.3
50°-60°	337.2	16.6
60°-70°	285.2	14.0
70°-80°	180.8	8.9
80°-90°	41.6	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°	506.1	24.9
0°-40°	835.2	41.1
0°-60°	1524.4	75.0
0°-90°	2032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	643	640	641	640	639	61
15°	622	621	624	624	624	176
25°	577	577	586	588	588	266
35°	513	516	527	534	538	321
45°	431	439	456	474	484	332
55°	334	344	378	409	423	298
65°	220	241	293	333	351	217
75°	100	141	200	199	193	108
85°	22	34	35	32	32	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	642.4	642.4	642.4	642.4	642.4
2.5°	645.5	642.4	643.4	642.4	640.3
5°	643.4	640.3	641.3	640.3	639.2
7.5°	641.3	638.2	639.2	638.2	638.2
10°	637.1	634.0	636.1	635.0	634.0
12.5°	630.8	628.7	630.8	629.8	629.8
15°	622.4	621.4	624.5	624.5	624.5
17.5°	614.0	613.0	617.2	617.2	617.2
20°	603.5	602.5	608.8	608.8	608.8
22.5°	590.9	589.9	598.3	598.3	598.3
25°	577.3	577.3	585.7	587.8	587.8
27.5°	563.6	563.6	573.1	576.2	576.2
30°	548.9	548.9	558.4	562.6	564.7
32.5°	531.1	533.2	543.7	548.9	551.0
35°	513.3	516.4	526.9	534.2	538.4
37.5°	494.4	497.5	510.1	518.5	523.7
40°	474.4	478.6	492.3	502.8	509.1
42.5°	452.4	458.7	474.4	488.1	496.5
45°	431.4	438.7	455.5	474.4	483.9
47.5°	408.3	416.7	435.6	459.7	469.2
50°	384.2	392.5	415.6	442.9	453.4
52.5°	360.0	369.5	396.7	426.1	438.7
55°	333.8	344.3	377.9	409.3	423.0
57.5°	306.5	319.1	356.9	390.5	405.1
60°	278.1	293.9	335.9	371.6	387.3
62.5°	248.8	267.6	314.9	352.7	369.5
65°	220.4	241.4	292.8	332.7	350.6
67.5°	190.0	216.2	270.8	313.8	330.6
70°	159.5	190.0	247.7	291.8	308.6
72.5°	129.1	165.8	224.6	264.5	264.5
75°	99.7	140.6	200.5	199.4	193.1
77.5°	75.6	117.6	164.8	140.6	141.7
80°	54.6	94.5	103.9	103.9	105.0
82.5°	36.7	72.4	67.2	66.1	68.2
85°	22.0	33.6	34.6	31.5	32.5
87.5°	10.5	11.5	9.4	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)