

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: P263361

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263361
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1842.0 lumens
Efficiency: N/A
Efficacy: 92.1 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

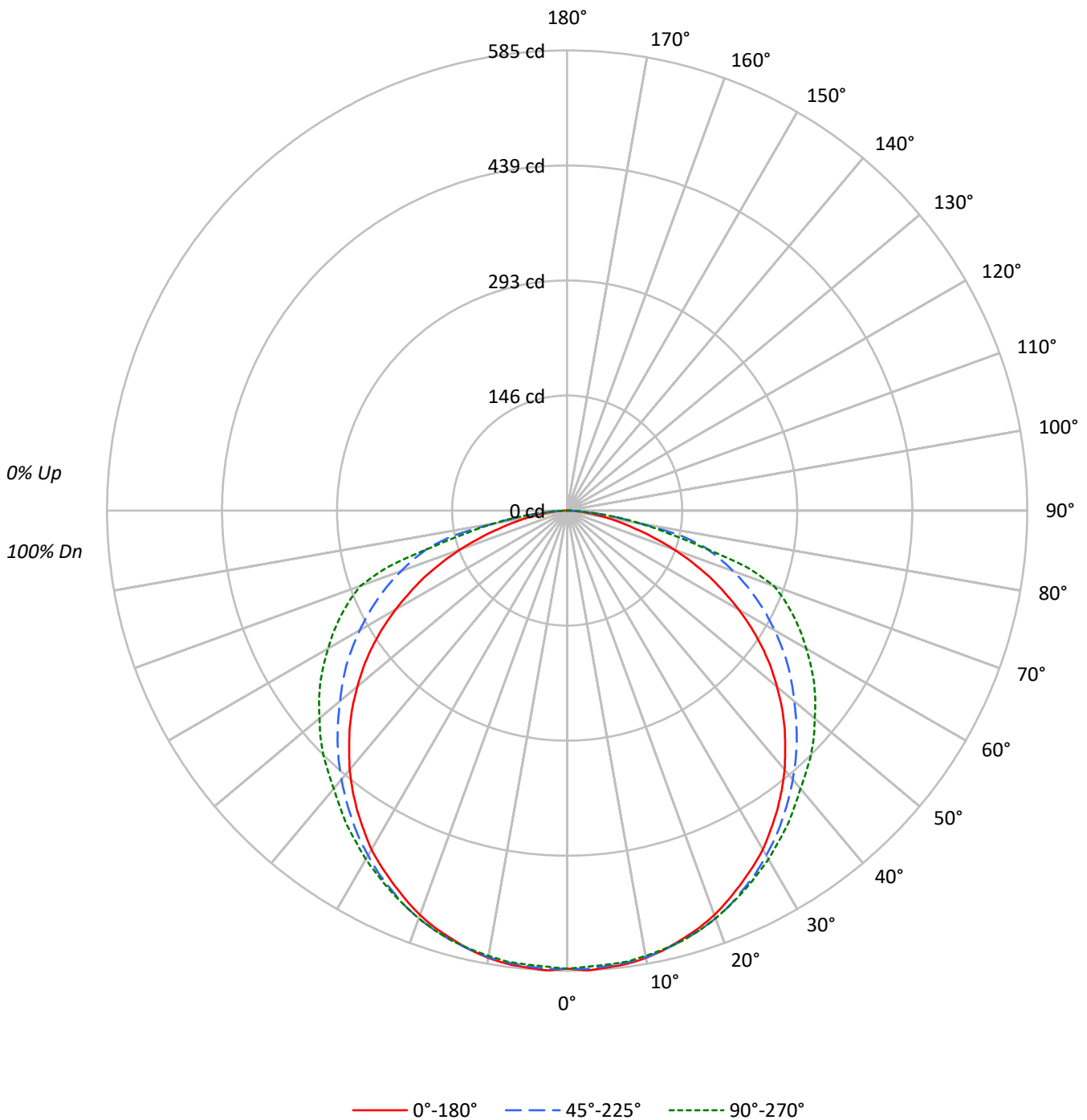
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	783	783	783
5°	788	785	783
10°	789	788	785
15°	786	789	789
20°	783	790	790
25°	777	788	791
30°	773	786	795
35°	764	784	802
40°	755	784	811
45°	744	786	835
50°	729	789	860
55°	710	803	899
60°	678	819	945
65°	636	845	1012
70°	569	883	1100
75°	470	945	910
80°	384	730	737
85°	309	485	455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	3.0
10°-20°	159.6	8.7
20°-30°	243.9	13.2
30°-40°	298.3	16.2
40°-50°	319.2	17.3
50°-60°	305.6	16.6
60°-70°	258.5	14.0
70°-80°	163.9	8.9
80°-90°	37.7	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°	458.8	24.9
0°-40°	757.1	41.1
0°-60°	1381.9	75.0
0°-90°	1842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	583	580	581	580	579	56
15°	564	563	566	566	566	159
25°	523	523	531	533	533	241
35°	465	468	478	484	488	291
45°	391	398	413	430	439	301
55°	303	312	342	371	383	270
65°	200	219	266	302	318	197
75°	90	128	182	181	175	98
85°	20	30	31	28	30	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	582.3	582.3	582.3	582.3	582.3
2.5°	585.1	582.3	583.2	582.3	580.4
5°	583.2	580.4	581.3	580.4	579.4
7.5°	581.3	578.5	579.4	578.5	578.5
10°	577.5	574.7	576.6	575.6	574.7
12.5°	571.8	569.9	571.8	570.9	570.9
15°	564.2	563.3	566.1	566.1	566.1
17.5°	556.6	555.6	559.5	559.5	559.5
20°	547.1	546.1	551.8	551.8	551.8
22.5°	535.7	534.7	542.3	542.3	542.3
25°	523.3	523.3	530.9	532.8	532.8
27.5°	510.9	510.9	519.5	522.3	522.3
30°	497.6	497.6	506.2	510.0	511.9
32.5°	481.4	483.3	492.9	497.6	499.5
35°	465.3	468.1	477.6	484.3	488.1
37.5°	448.1	451.0	462.4	470.0	474.8
40°	430.1	433.9	446.2	455.7	461.5
42.5°	410.1	415.8	430.1	442.4	450.0
45°	391.0	397.7	412.9	430.1	438.6
47.5°	370.1	377.7	394.9	416.7	425.3
50°	348.2	355.8	376.8	401.5	411.0
52.5°	326.3	334.9	359.7	386.3	397.7
55°	302.6	312.1	342.5	371.1	383.4
57.5°	277.8	289.2	323.5	353.9	367.3
60°	252.1	266.4	304.5	336.8	351.1
62.5°	225.5	242.6	285.4	319.7	334.9
65°	199.8	218.8	265.5	301.6	317.8
67.5°	172.2	196.0	245.5	284.5	299.7
70°	144.6	172.2	224.5	264.5	279.7
72.5°	117.0	150.3	203.6	239.8	239.8
75°	90.4	127.5	181.7	180.8	175.1
77.5°	68.5	106.6	149.4	127.5	128.4
80°	49.5	85.6	94.2	94.2	95.1
82.5°	33.3	65.7	60.9	59.9	61.8
85°	20.0	30.4	31.4	28.5	29.5
87.5°	9.5	10.5	8.6	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)