

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: P263871

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1910.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

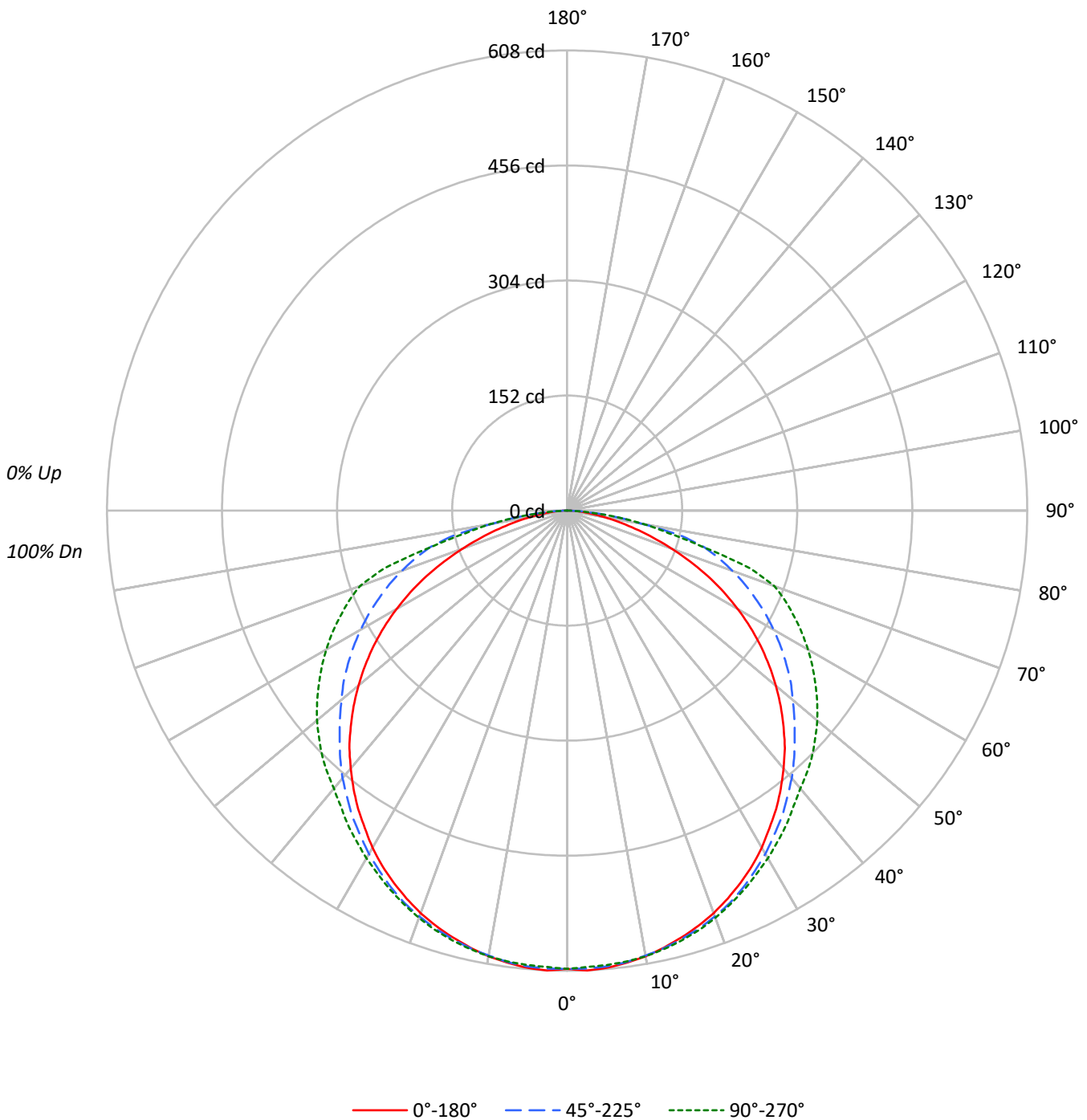
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	815	815	815
5°	819	816	814
10°	817	816	817
15°	813	816	818
20°	810	817	820
25°	805	817	821
30°	799	814	824
35°	791	812	831
40°	781	811	842
45°	769	809	871
50°	754	815	903
55°	732	829	939
60°	701	848	989
65°	653	874	1053
70°	577	913	1147
75°	484	977	963
80°	386	773	801
85°	304	522	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	3.0
10°-20°	165.3	8.7
20°-30°	252.5	13.2
30°-40°	308.6	16.2
40°-50°	330.4	17.3
50°-60°	316.9	16.6
60°-70°	267.6	14.0
70°-80°	171.0	9.0
80°-90°	40.4	2.1
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°	475.2	24.9
0°-40°	783.8	41.0
0°-60°	1431.0	74.9
0°-90°	1910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	606	603	604	604	603	58
15°	584	582	586	588	588	165
25°	542	542	550	552	553	250
35°	481	485	494	501	506	301
45°	404	411	425	445	458	312
55°	312	322	354	386	400	279
65°	205	225	274	313	331	202
75°	93	133	188	192	185	100
85°	20	33	34	33	31	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	605.5	605.5	605.5	605.5	605.5
2.5°	608.3	604.5	605.5	605.5	603.6
5°	606.4	602.7	604.5	603.6	602.7
7.5°	602.7	599.8	601.7	601.7	600.8
10°	598.0	595.1	597.0	598.0	598.0
12.5°	591.4	589.5	592.3	592.3	593.3
15°	583.9	582.0	585.7	587.6	587.6
17.5°	575.4	574.5	579.2	580.1	581.0
20°	566.0	565.1	570.7	570.7	572.6
22.5°	554.7	553.8	561.3	561.3	563.2
25°	542.5	541.6	550.0	551.9	552.8
27.5°	529.3	528.4	536.9	539.7	541.6
30°	514.3	514.3	523.7	527.4	530.3
32.5°	497.4	500.2	508.6	514.3	518.0
35°	481.4	485.1	494.5	501.1	505.8
37.5°	463.5	467.3	477.6	486.1	491.7
40°	444.7	449.4	461.6	471.0	479.5
42.5°	425.9	430.6	443.8	457.9	469.2
45°	404.3	410.9	425.0	444.7	457.9
47.5°	382.7	389.2	407.1	431.5	444.7
50°	360.1	367.6	389.2	417.4	431.5
52.5°	336.6	345.1	372.3	402.4	416.5
55°	312.1	322.5	353.5	385.5	400.5
57.5°	286.8	298.0	334.7	368.6	384.5
60°	260.4	274.5	315.0	350.7	367.6
62.5°	233.2	250.1	295.2	331.9	349.8
65°	205.0	224.7	274.5	313.1	330.9
67.5°	175.8	202.1	253.9	294.3	312.1
70°	146.7	177.7	232.2	273.6	291.5
72.5°	119.4	155.1	210.6	249.2	252.9
75°	93.1	132.6	188.0	191.8	185.2
77.5°	69.6	110.0	155.1	138.2	137.3
80°	49.8	88.4	99.7	102.5	103.4
82.5°	32.9	66.8	64.9	66.8	65.8
85°	19.7	32.9	33.8	32.9	31.0
87.5°	9.4	12.2	9.4	8.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)