

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: P263620

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263620
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-L93050-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: 1968.8 lumens
Efficiency: N/A
Efficacy: 86.8 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

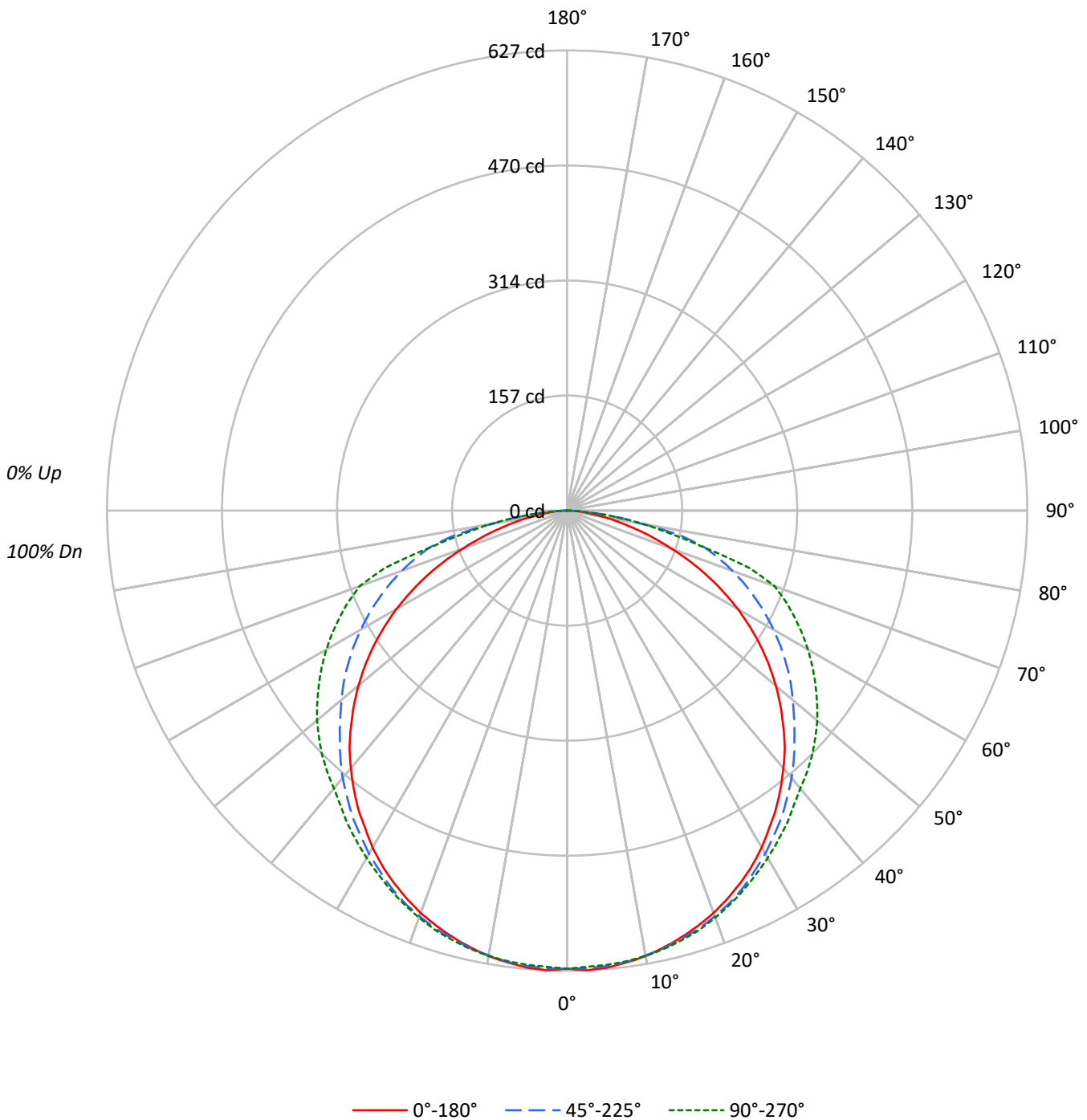
Input Watts (W): 22.676004
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	840	840	840
5°	844	842	839
10°	842	841	842
15°	838	841	844
20°	835	842	845
25°	830	842	846
30°	824	839	849
35°	815	837	856
40°	805	836	868
45°	793	834	898
50°	777	840	931
55°	755	855	969
60°	723	874	1020
65°	673	901	1086
70°	595	942	1182
75°	499	1007	992
80°	398	796	826
85°	315	539	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	3.0
10°-20°	170.4	8.7
20°-30°	260.2	13.2
30°-40°	318.1	16.2
40°-50°	340.5	17.3
50°-60°	326.6	16.6
60°-70°	275.8	14.0
70°-80°	176.2	9.0
80°-90°	41.7	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°	489.8	24.9
0°-40°	807.9	41.0
0°-60°	1475.1	74.9
0°-90°	1968.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1968.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	624	624	624	624	624	
5°	625	621	623	622	621	59
15°	602	600	604	606	606	170
25°	559	558	567	569	570	258
35°	496	500	510	517	521	310
45°	417	424	438	458	472	321
55°	322	332	364	397	413	287
65°	211	232	283	323	341	208
75°	96	137	194	198	191	103
85°	20	34	35	34	32	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	624.1	624.1	624.1	624.1	624.1
2.5°	627.0	623.2	624.1	624.1	622.2
5°	625.1	621.2	623.2	622.2	621.2
7.5°	621.2	618.3	620.3	620.3	619.3
10°	616.4	613.5	615.4	616.4	616.4
12.5°	609.6	607.7	610.6	610.6	611.5
15°	601.8	599.9	603.8	605.7	605.7
17.5°	593.1	592.1	597.0	598.0	598.9
20°	583.4	582.5	588.3	588.3	590.2
22.5°	571.8	570.8	578.6	578.6	580.5
25°	559.2	558.2	567.0	568.9	569.9
27.5°	545.6	544.7	553.4	556.3	558.2
30°	530.1	530.1	539.8	543.7	546.6
32.5°	512.7	515.6	524.3	530.1	534.0
35°	496.2	500.1	509.8	516.6	521.4
37.5°	477.8	481.7	492.3	501.0	506.9
40°	458.4	463.3	475.9	485.5	494.3
42.5°	439.0	443.9	457.4	472.0	483.6
45°	416.7	423.5	438.1	458.4	472.0
47.5°	394.4	401.2	419.6	444.8	458.4
50°	371.2	378.9	401.2	430.3	444.8
52.5°	347.0	355.7	383.8	414.8	429.3
55°	321.8	332.4	364.4	397.3	412.9
57.5°	295.6	307.2	345.0	379.9	396.4
60°	268.5	283.0	324.7	361.5	378.9
62.5°	240.3	257.8	304.3	342.1	360.5
65°	211.3	231.6	283.0	322.7	341.1
67.5°	181.2	208.4	261.7	303.3	321.8
70°	151.2	183.2	239.4	282.0	300.4
72.5°	123.1	159.9	217.1	256.8	260.7
75°	95.9	136.6	193.8	197.7	190.9
77.5°	71.7	113.4	159.9	142.5	141.5
80°	51.4	91.1	102.7	105.6	106.6
82.5°	33.9	68.8	66.9	68.8	67.8
85°	20.4	33.9	34.9	33.9	32.0
87.5°	9.7	12.6	9.7	8.7	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)