

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: P263740

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263740
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-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2203.0 lumens
Efficiency: N/A
Efficacy: 97.1 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

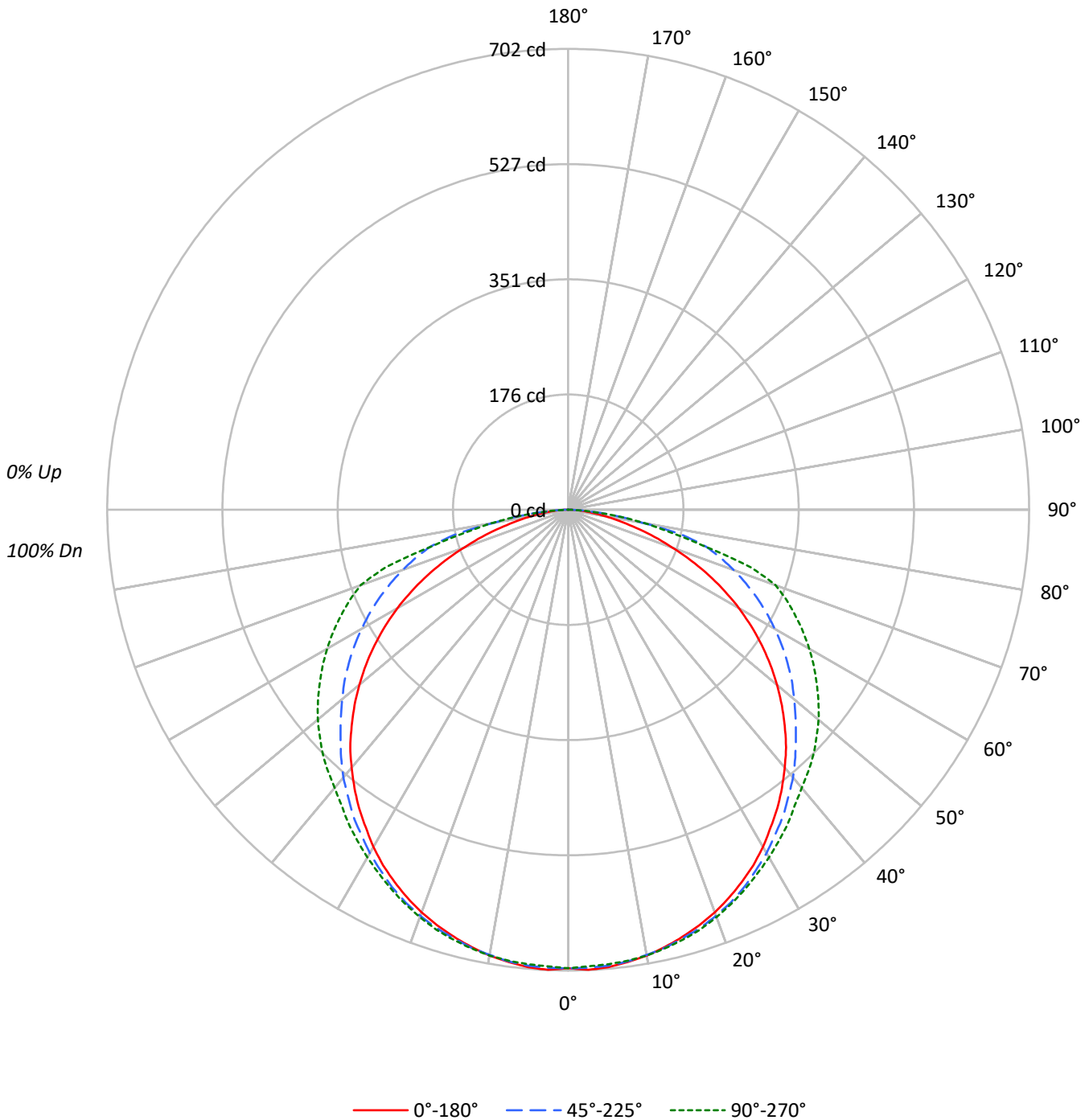
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	940	940	940
5°	945	942	939
10°	942	941	942
15°	938	941	944
20°	935	942	946
25°	929	942	947
30°	922	938	950
35°	912	937	958
40°	901	935	971
45°	887	933	1005
50°	869	940	1042
55°	844	956	1084
60°	808	978	1141
65°	753	1008	1215
70°	666	1054	1323
75°	558	1128	1110
80°	446	890	924
85°	352	602	553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.0
10°-20°	190.6	8.7
20°-30°	291.2	13.2
30°-40°	356.0	16.2
40°-50°	381.0	17.3
50°-60°	365.5	16.6
60°-70°	308.6	14.0
70°-80°	197.2	9.0
80°-90°	46.6	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°	548.0	24.9
0°-40°	904.0	41.0
0°-60°	1650.6	74.9
0°-90°	2203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	700	695	697	696	695	66
15°	673	671	676	678	678	190
25°	626	625	634	637	638	288
35°	555	560	570	578	583	347
45°	466	474	490	513	528	360
55°	360	372	408	445	462	321
65°	236	259	317	361	382	233
75°	107	153	217	221	214	116
85°	23	38	39	38	36	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.4	698.4	698.4	698.4	698.4
2.5°	701.6	697.3	698.4	698.4	696.2
5°	699.5	695.1	697.3	696.2	695.1
7.5°	695.1	691.9	694.0	694.0	692.9
10°	689.7	686.4	688.6	689.7	689.7
12.5°	682.1	679.9	683.2	683.2	684.3
15°	673.4	671.3	675.6	677.8	677.8
17.5°	663.7	662.6	668.0	669.1	670.2
20°	652.8	651.7	658.2	658.2	660.4
22.5°	639.8	638.7	647.4	647.4	649.6
25°	625.7	624.6	634.4	636.6	637.6
27.5°	610.5	609.4	619.2	622.5	624.6
30°	593.2	593.2	604.0	608.4	611.6
32.5°	573.7	576.9	586.7	593.2	597.5
35°	555.2	559.6	570.4	578.0	583.4
37.5°	534.6	539.0	550.9	560.6	567.2
40°	512.9	518.4	532.5	543.3	553.1
42.5°	491.2	496.7	511.8	528.1	541.1
45°	466.3	473.9	490.2	512.9	528.1
47.5°	441.4	449.0	469.6	497.8	512.9
50°	415.3	424.0	449.0	481.5	497.8
52.5°	388.2	398.0	429.4	464.1	480.4
55°	360.0	372.0	407.7	444.6	462.0
57.5°	330.7	343.8	386.1	425.1	443.5
60°	300.4	316.7	363.3	404.5	424.0
62.5°	268.9	288.5	340.5	382.8	403.4
65°	236.4	259.2	316.7	361.1	381.7
67.5°	202.8	233.2	292.8	339.4	360.0
70°	169.2	205.0	267.9	315.6	336.2
72.5°	137.7	178.9	242.9	287.4	291.7
75°	107.4	152.9	216.9	221.2	213.6
77.5°	80.2	126.9	178.9	159.4	158.3
80°	57.5	101.9	114.9	118.2	119.3
82.5°	38.0	77.0	74.8	77.0	75.9
85°	22.8	38.0	39.0	38.0	35.8
87.5°	10.8	14.1	10.8	9.8	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)