

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: P263360

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263360
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1795.0 lumens
Efficiency: N/A
Efficacy: 90.6 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

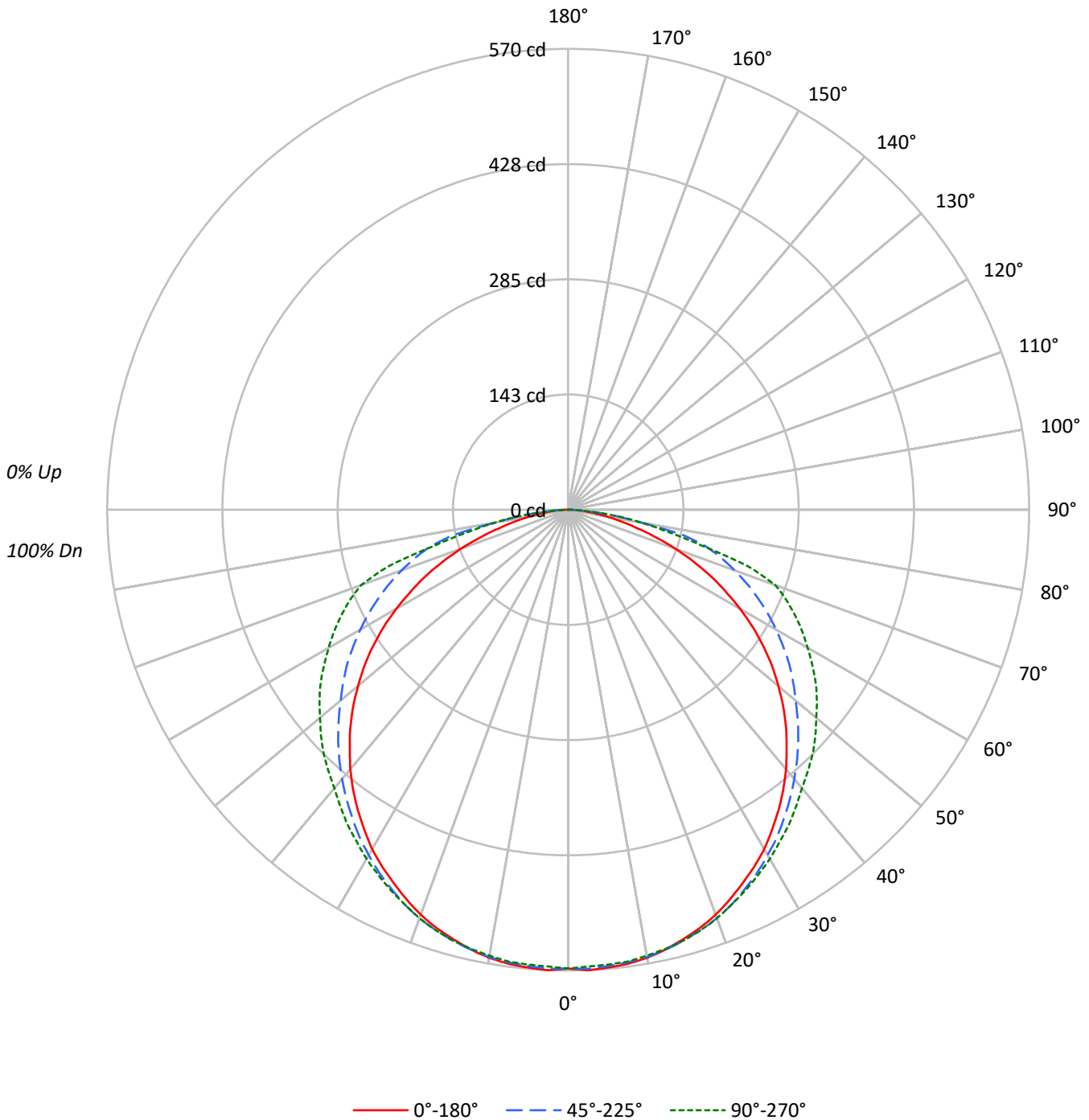
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	763	763	763
5°	768	765	763
10°	769	768	765
15°	766	768	768
20°	763	770	770
25°	757	768	771
30°	753	766	775
35°	745	764	781
40°	736	764	790
45°	725	766	813
50°	710	769	838
55°	692	783	877
60°	661	798	921
65°	620	824	986
70°	554	861	1072
75°	458	921	887
80°	373	711	718
85°	301	472	443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	3.0
10°-20°	155.5	8.7
20°-30°	237.7	13.2
30°-40°	290.7	16.2
40°-50°	311.0	17.3
50°-60°	297.8	16.6
60°-70°	251.9	14.0
70°-80°	159.7	8.9
80°-90°	36.7	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°	447.1	24.9
0°-40°	737.8	41.1
0°-60°	1346.6	75.0
0°-90°	1795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	568	566	566	566	565	54
15°	550	549	552	552	552	155
25°	510	510	517	519	519	235
35°	453	456	465	472	476	284
45°	381	388	402	419	427	294
55°	295	304	334	362	374	263
65°	195	213	259	294	310	192
75°	88	124	177	176	171	96
85°	20	30	31	28	29	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	567.4	567.4	567.4	567.4	567.4
2.5°	570.2	567.4	568.4	567.4	565.6
5°	568.4	565.6	566.5	565.6	564.7
7.5°	566.5	563.7	564.7	563.7	563.7
10°	562.8	560.0	561.9	560.9	560.0
12.5°	557.2	555.4	557.2	556.3	556.3
15°	549.8	548.9	551.7	551.7	551.7
17.5°	542.4	541.5	545.2	545.2	545.2
20°	533.1	532.2	537.8	537.8	537.8
22.5°	522.0	521.1	528.5	528.5	528.5
25°	509.9	509.9	517.4	519.2	519.2
27.5°	497.9	497.9	506.2	509.0	509.0
30°	484.9	484.9	493.3	497.0	498.8
32.5°	469.2	471.0	480.3	484.9	486.8
35°	453.4	456.2	465.4	471.9	475.6
37.5°	436.7	439.5	450.6	458.0	462.7
40°	419.1	422.8	434.8	444.1	449.7
42.5°	399.6	405.2	419.1	431.1	438.6
45°	381.1	387.6	402.4	419.1	427.4
47.5°	360.7	368.1	384.8	406.1	414.4
50°	339.3	346.8	367.2	391.3	400.5
52.5°	318.0	326.4	350.5	376.4	387.6
55°	294.8	304.1	333.8	361.6	373.7
57.5°	270.7	281.9	315.2	344.9	357.9
60°	245.7	259.6	296.7	328.2	342.1
62.5°	219.7	236.4	278.2	311.5	326.4
65°	194.7	213.3	258.7	293.9	309.7
67.5°	167.8	191.0	239.2	277.2	292.1
70°	140.9	167.8	218.8	257.8	272.6
72.5°	114.0	146.5	198.4	233.6	233.6
75°	88.1	124.2	177.1	176.2	170.6
77.5°	66.8	103.8	145.6	124.2	125.2
80°	48.2	83.4	91.8	91.8	92.7
82.5°	32.5	64.0	59.3	58.4	60.3
85°	19.5	29.7	30.6	27.8	28.7
87.5°	9.3	10.2	8.3	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)