

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: P277113

Luminaire Tested: **24CZ2-30-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1811.4 lumens
Efficiency: N/A
Efficacy: 80.8 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

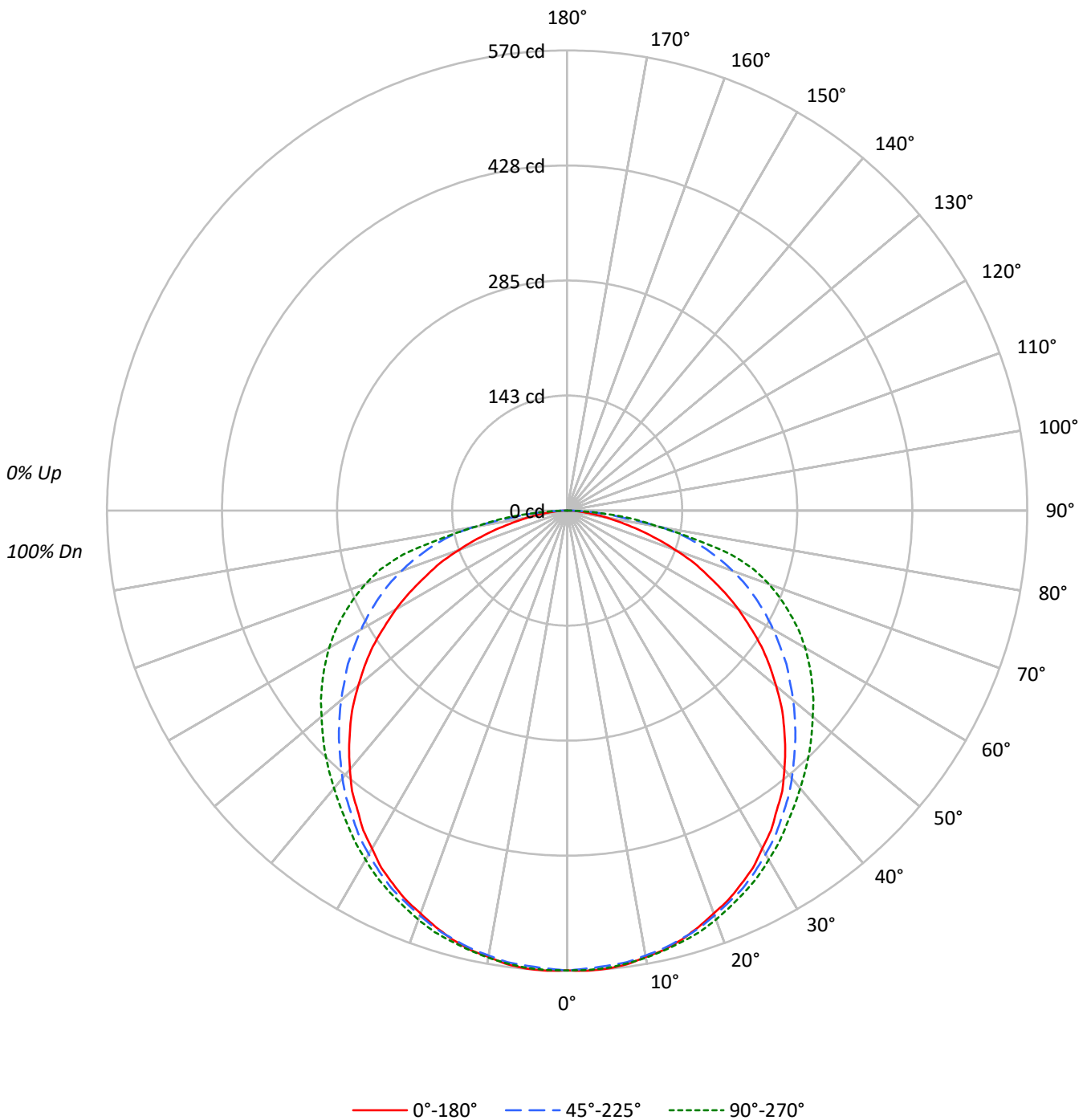
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	766	766	766
5°	769	764	768
10°	767	765	768
15°	766	765	770
20°	760	764	772
25°	758	766	774
30°	751	764	776
35°	744	761	779
40°	735	761	789
45°	723	761	807
50°	707	765	831
55°	689	778	868
60°	660	793	916
65°	618	821	973
70°	562	859	1046
75°	476	906	1093
80°	376	912	884
85°	278	693	777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	3.0
10°-20°	155.5	8.6
20°-30°	237.8	13.1
30°-40°	290.7	16.0
40°-50°	309.8	17.1
50°-60°	296.3	16.4
60°-70°	251.0	13.9
70°-80°	168.7	9.3
80°-90°	47.6	2.6
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°	447.4	24.7
0°-40°	738.1	40.7
0°-60°	1344.2	74.2
0°-90°	1811.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1811.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	570	569	566	569	569	54
15°	550	550	549	554	553	155
25°	510	512	516	520	521	235
35°	453	456	464	473	474	284
45°	380	386	400	417	424	293
55°	294	305	332	358	370	262
65°	194	214	258	292	306	193
75°	92	125	174	204	210	98
85°	18	37	45	48	50	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	569.6	569.6	569.6	569.6	569.6
2.5°	570.5	570.5	567.8	569.6	569.6
5°	569.6	568.7	566.0	568.7	568.7
7.5°	566.9	566.0	564.2	566.9	566.0
10°	561.5	561.5	559.7	562.4	562.4
12.5°	557.1	556.2	555.3	558.8	557.9
15°	549.9	549.9	549.0	553.5	552.6
17.5°	540.9	541.8	542.7	546.3	547.2
20°	531.0	532.8	533.7	539.1	539.1
22.5°	522.0	522.9	524.7	530.1	530.1
25°	510.3	512.1	515.7	520.2	521.1
27.5°	498.7	499.5	504.0	510.3	511.2
30°	483.4	486.1	491.5	498.7	499.5
32.5°	469.9	472.6	478.9	486.1	487.9
35°	452.8	456.4	463.6	472.6	474.4
37.5°	437.6	440.3	449.2	459.1	461.8
40°	418.7	424.1	433.1	444.7	449.2
42.5°	399.8	405.2	416.0	431.3	436.7
45°	380.1	386.3	399.8	416.9	424.1
47.5°	360.3	367.5	382.7	402.5	410.6
50°	337.8	346.8	365.7	388.1	397.1
52.5°	316.3	327.0	347.7	372.9	384.5
55°	293.8	304.6	331.5	357.6	370.2
57.5°	268.6	283.0	312.7	342.3	355.8
60°	245.3	258.8	294.7	327.0	340.5
62.5°	220.1	238.1	276.7	310.9	324.3
65°	194.1	213.8	257.9	292.0	305.5
67.5°	170.7	192.3	239.0	273.1	286.6
70°	142.9	169.8	218.3	252.5	265.9
72.5°	116.8	146.5	196.8	230.0	242.6
75°	91.6	124.9	174.3	204.0	210.2
77.5°	68.3	103.3	150.9	163.5	159.0
80°	48.5	82.7	117.7	111.4	114.1
82.5°	31.4	62.9	72.8	82.7	85.4
85°	18.0	36.8	44.9	48.5	50.3
87.5°	8.1	13.5	18.0	18.0	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)