

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: P276808

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276808
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: 24CZ2-30HE-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1660.3 lumens
Efficiency: N/A
Efficacy: 83.0 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

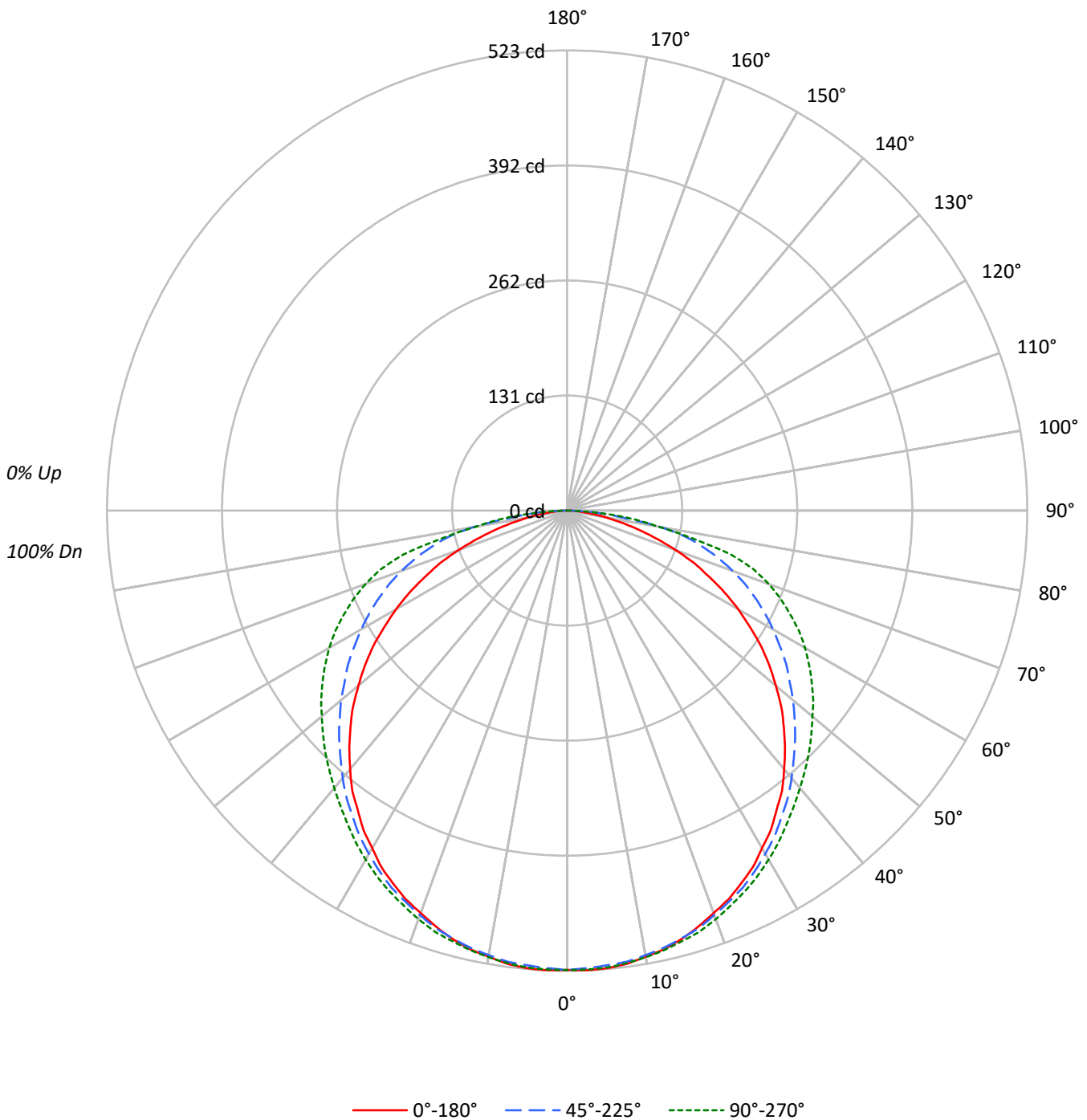
Input Watts (W): 19.995837
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	702	702	702
5°	705	701	704
10°	703	701	704
15°	702	701	706
20°	697	700	707
25°	694	702	709
30°	688	700	711
35°	682	698	714
40°	674	697	723
45°	663	697	740
50°	648	702	762
55°	632	713	796
60°	605	727	840
65°	566	752	891
70°	515	787	959
75°	437	831	1002
80°	345	836	810
85°	255	636	712



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	3.0
10°-20°	142.5	8.6
20°-30°	218.0	13.1
30°-40°	266.5	16.0
40°-50°	284.0	17.1
50°-60°	271.6	16.4
60°-70°	230.0	13.9
70°-80°	154.6	9.3
80°-90°	43.6	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°	410.0	24.7
0°-40°	676.5	40.7
0°-60°	1232.1	74.2
0°-90°	1660.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1660.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	522	521	519	521	521	50
15°	504	504	503	507	506	142
25°	468	469	473	477	478	216
35°	415	418	425	433	435	260
45°	348	354	366	382	389	269
55°	269	279	304	328	339	240
65°	178	196	236	268	280	177
75°	84	114	160	187	193	90
85°	16	34	41	44	46	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	522.1	522.1	522.1	522.1	522.1
2.5°	522.9	522.9	520.5	522.1	522.1
5°	522.1	521.3	518.8	521.3	521.3
7.5°	519.6	518.8	517.2	519.6	518.8
10°	514.7	514.7	513.1	515.5	515.5
12.5°	510.6	509.8	508.9	512.2	511.4
15°	504.0	504.0	503.2	507.3	506.5
17.5°	495.8	496.6	497.4	500.7	501.5
20°	486.7	488.3	489.2	494.1	494.1
22.5°	478.5	479.3	480.9	485.9	485.9
25°	467.8	469.4	472.7	476.8	477.6
27.5°	457.1	457.9	462.0	467.8	468.6
30°	443.1	445.5	450.5	457.1	457.9
32.5°	430.7	433.2	438.9	445.5	447.2
35°	415.1	418.3	424.9	433.2	434.8
37.5°	401.1	403.5	411.8	420.8	423.3
40°	383.8	388.7	396.9	407.6	411.8
42.5°	366.5	371.4	381.3	395.3	400.2
45°	348.3	354.1	366.5	382.1	388.7
47.5°	330.2	336.8	350.8	368.9	376.3
50°	309.6	317.9	335.2	355.8	364.0
52.5°	289.9	299.8	318.7	341.8	352.5
55°	269.3	279.2	303.9	327.8	339.3
57.5°	246.2	259.4	286.6	313.8	326.1
60°	224.8	237.2	270.1	299.8	312.1
62.5°	201.8	218.2	253.6	284.9	297.3
65°	177.9	196.0	236.3	267.6	280.0
67.5°	156.5	176.2	219.1	250.3	262.7
70°	130.9	155.6	200.1	231.4	243.8
72.5°	107.1	134.2	180.4	210.8	222.3
75°	84.0	114.5	159.8	186.9	192.7
77.5°	62.6	94.7	138.4	149.9	145.8
80°	44.5	75.8	107.9	102.1	104.6
82.5°	28.8	57.6	66.7	75.8	78.2
85°	16.5	33.8	41.2	44.5	46.1
87.5°	7.4	12.4	16.5	16.5	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)