

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: P276732

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276732
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-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1846.0 lumens
Efficiency: N/A
Efficacy: 94.3 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

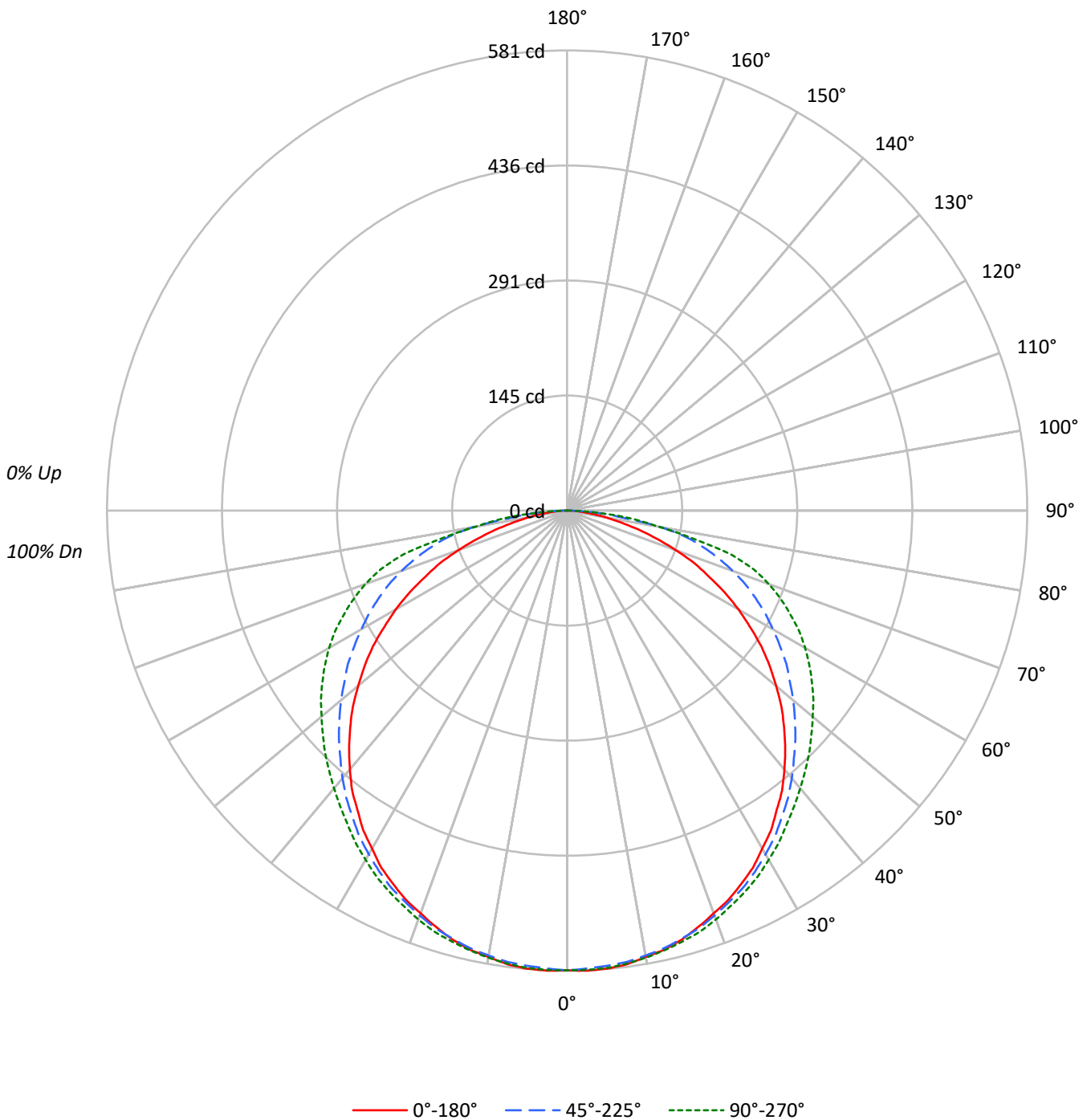
Input Watts (W): 19.583754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	68	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°	781	781	781
5°	784	779	783
10°	782	779	783
15°	781	779	784
20°	775	779	787
25°	772	780	788
30°	765	778	791
35°	758	776	794
40°	749	775	804
45°	737	775	822
50°	721	780	847
55°	702	793	885
60°	673	808	934
65°	630	837	991
70°	573	875	1066
75°	486	923	1114
80°	383	929	901
85°	283	707	792



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	3.0
10°-20°	158.5	8.6
20°-30°	242.4	13.1
30°-40°	296.3	16.0
40°-50°	315.8	17.1
50°-60°	301.9	16.4
60°-70°	255.8	13.9
70°-80°	171.9	9.3
80°-90°	48.5	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°	455.9	24.7
0°-40°	752.2	40.7
0°-60°	1369.9	74.2
0°-90°	1846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	580	580	580	580	580	
5°	580	580	577	580	580	55
15°	560	560	560	564	563	158
25°	520	522	526	530	531	240
35°	462	465	472	482	484	289
45°	387	394	408	425	432	299
55°	299	310	338	364	377	267
65°	198	218	263	298	311	196
75°	93	127	178	208	214	100
85°	18	38	46	49	51	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	580.5	580.5	580.5	580.5	580.5
2.5°	581.4	581.4	578.7	580.5	580.5
5°	580.5	579.6	576.9	579.6	579.6
7.5°	577.8	576.9	575.0	577.8	576.9
10°	572.3	572.3	570.4	573.2	573.2
12.5°	567.7	566.8	565.9	569.5	568.6
15°	560.4	560.4	559.5	564.0	563.1
17.5°	551.2	552.1	553.0	556.7	557.6
20°	541.1	543.0	543.9	549.4	549.4
22.5°	532.0	532.9	534.7	540.2	540.2
25°	520.1	521.9	525.6	530.2	531.1
27.5°	508.2	509.1	513.7	520.1	521.0
30°	492.6	495.4	500.9	508.2	509.1
32.5°	478.9	481.6	488.0	495.4	497.2
35°	461.5	465.1	472.5	481.6	483.5
37.5°	445.9	448.7	457.8	467.9	470.6
40°	426.7	432.2	441.3	453.2	457.8
42.5°	407.5	413.0	423.9	439.5	445.0
45°	387.3	393.7	407.5	424.9	432.2
47.5°	367.2	374.5	390.1	410.2	418.4
50°	344.3	353.4	372.7	395.6	404.7
52.5°	322.3	333.3	354.4	380.0	391.9
55°	299.4	310.4	337.9	364.4	377.2
57.5°	273.8	288.4	318.6	348.9	362.6
60°	250.0	263.7	300.3	333.3	347.0
62.5°	224.3	242.6	282.0	316.8	330.5
65°	197.8	217.9	262.8	297.6	311.3
67.5°	174.0	195.9	243.6	278.4	292.1
70°	145.6	173.1	222.5	257.3	271.0
72.5°	119.0	149.2	200.5	234.4	247.2
75°	93.4	127.3	177.6	207.8	214.3
77.5°	69.6	105.3	153.8	166.6	162.1
80°	49.4	84.2	119.9	113.5	116.3
82.5°	32.0	64.1	74.2	84.2	87.0
85°	18.3	37.5	45.8	49.4	51.3
87.5°	8.2	13.7	18.3	18.3	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)