

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: P276810

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276810
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-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1824.4 lumens
Efficiency: N/A
Efficacy: 89.2 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

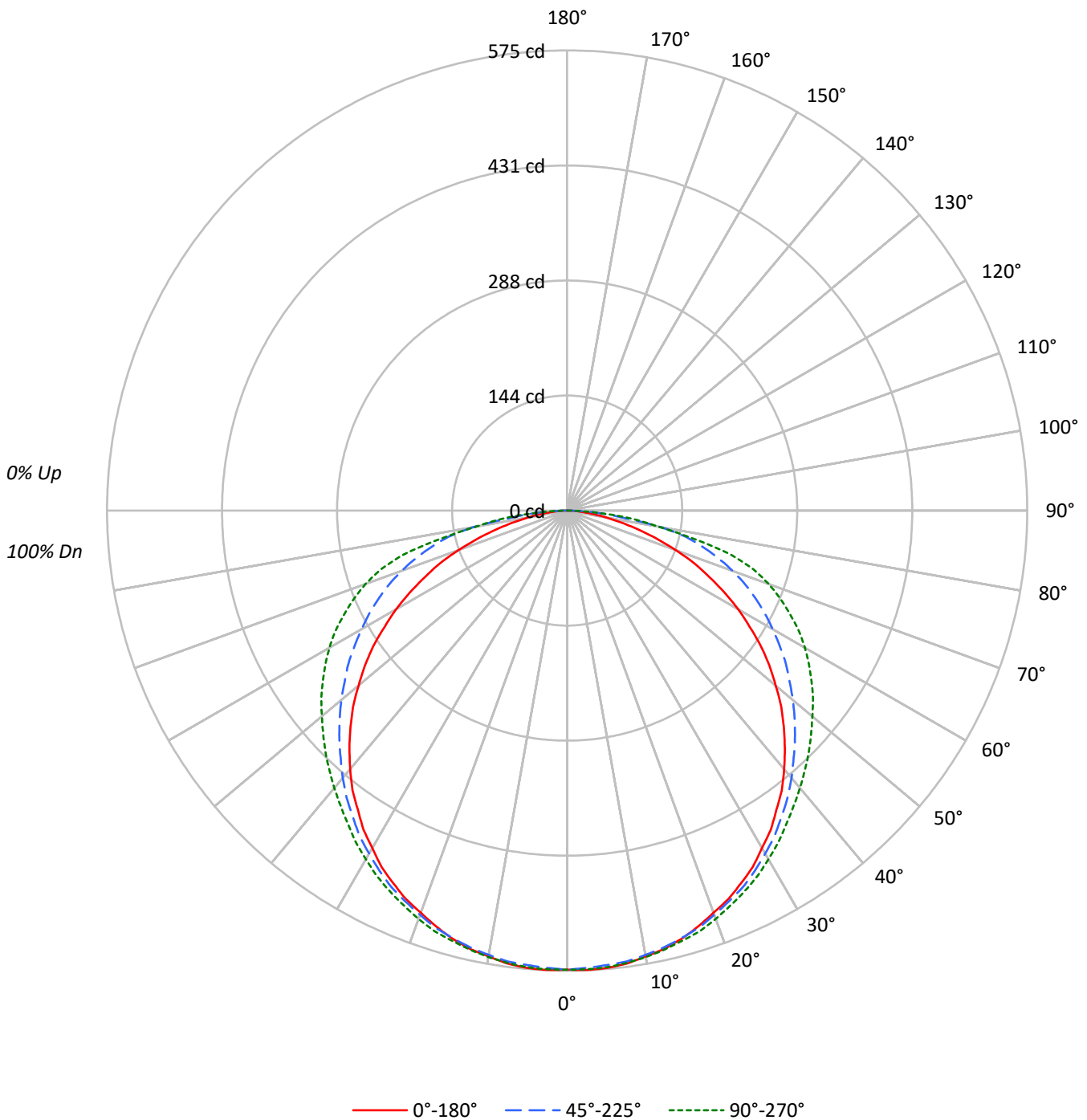
Input Watts (W): 20.447166
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	772	772	772
5°	775	770	774
10°	773	770	774
15°	771	770	775
20°	766	770	777
25°	763	771	779
30°	756	769	782
35°	749	767	785
40°	741	766	795
45°	728	766	813
50°	712	771	837
55°	694	783	875
60°	665	799	923
65°	622	827	980
70°	566	865	1054
75°	480	913	1101
80°	379	918	890
85°	279	698	783



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	3.0
10°-20°	156.6	8.6
20°-30°	239.5	13.1
30°-40°	292.8	16.0
40°-50°	312.1	17.1
50°-60°	298.4	16.4
60°-70°	252.8	13.9
70°-80°	169.9	9.3
80°-90°	47.9	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°	450.6	24.7
0°-40°	743.4	40.7
0°-60°	1353.8	74.2
0°-90°	1824.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1824.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	574	573	570	573	573	55
15°	554	554	553	557	556	156
25°	514	516	519	524	525	237
35°	456	460	467	476	478	286
45°	383	389	403	420	427	295
55°	296	307	334	360	373	264
65°	196	215	260	294	308	194
75°	92	126	176	205	212	99
85°	18	37	45	49	51	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.7	573.7	573.7	573.7	573.7
2.5°	574.6	574.6	571.9	573.7	573.7
5°	573.7	572.8	570.1	572.8	572.8
7.5°	571.0	570.1	568.3	571.0	570.1
10°	565.6	565.6	563.8	566.5	566.5
12.5°	561.0	560.1	559.2	562.8	561.9
15°	553.8	553.8	552.9	557.4	556.5
17.5°	544.8	545.7	546.6	550.2	551.1
20°	534.8	536.6	537.5	542.9	542.9
22.5°	525.7	526.7	528.5	533.9	533.9
25°	514.0	515.8	519.4	523.9	524.8
27.5°	502.2	503.1	507.6	514.0	514.9
30°	486.8	489.6	495.0	502.2	503.1
32.5°	473.3	476.0	482.3	489.6	491.4
35°	456.1	459.7	466.9	476.0	477.8
37.5°	440.7	443.4	452.5	462.4	465.1
40°	421.7	427.1	436.2	447.9	452.5
42.5°	402.7	408.1	419.0	434.4	439.8
45°	382.8	389.1	402.7	419.9	427.1
47.5°	362.9	370.1	385.5	405.4	413.5
50°	340.2	349.3	368.3	390.9	400.0
52.5°	318.5	329.4	350.2	375.5	387.3
55°	295.9	306.8	333.9	360.2	372.8
57.5°	270.6	285.0	314.9	344.8	358.3
60°	247.0	260.6	296.8	329.4	343.0
62.5°	221.7	239.8	278.7	313.1	326.7
65°	195.5	215.4	259.7	294.1	307.7
67.5°	171.9	193.6	240.7	275.1	288.7
70°	143.9	171.0	219.9	254.3	267.9
72.5°	117.6	147.5	198.2	231.7	244.3
75°	92.3	125.8	175.6	205.4	211.7
77.5°	68.8	104.1	152.0	164.7	160.2
80°	48.9	83.3	118.5	112.2	114.9
82.5°	31.7	63.3	73.3	83.3	86.0
85°	18.1	37.1	45.2	48.9	50.7
87.5°	8.1	13.6	18.1	18.1	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)