

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: P276887

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276887
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-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2011.2 lumens
Efficiency: N/A
Efficacy: 100.1 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

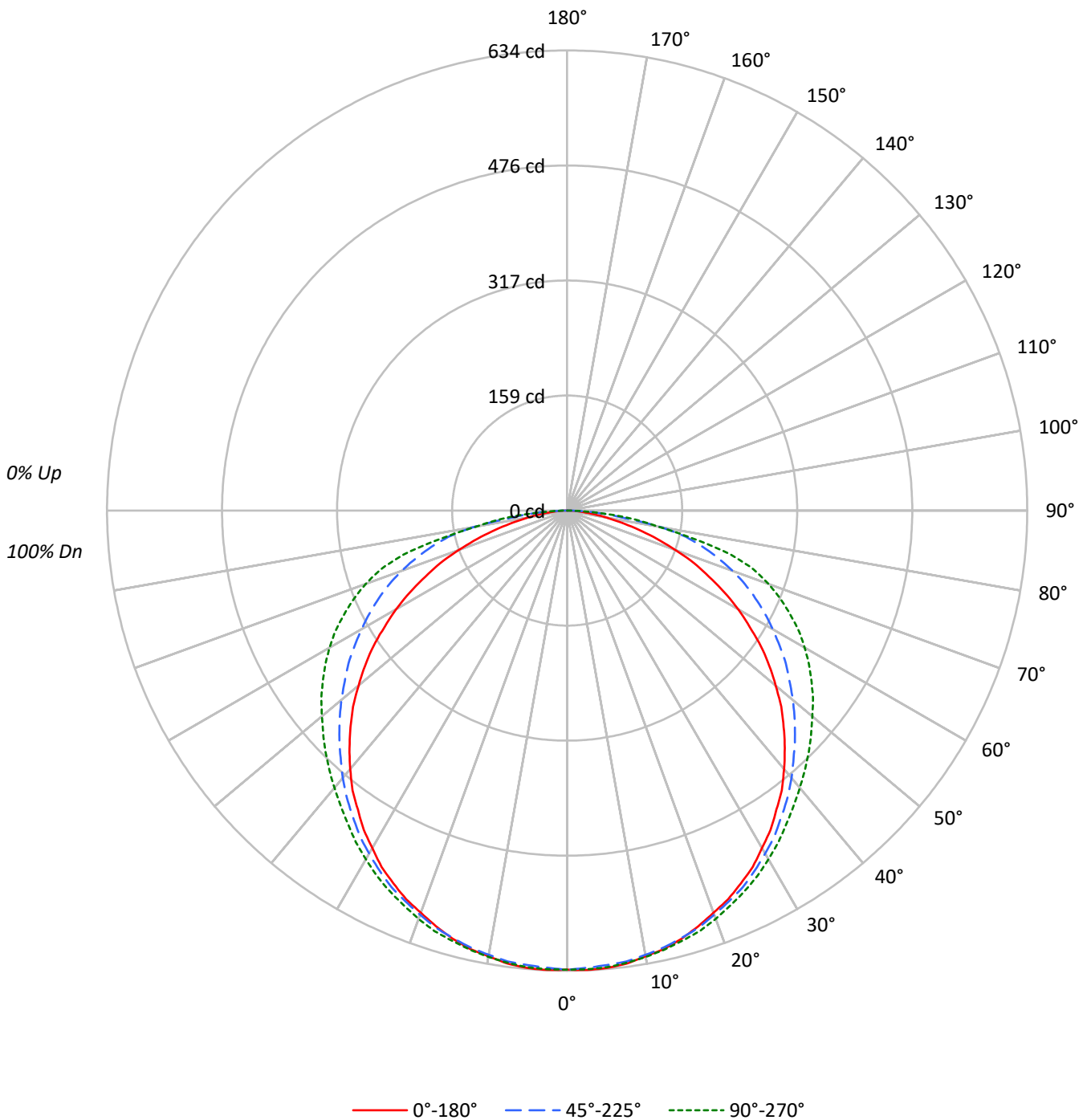
Input Watts (W): 20.088
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	851	851	851
5°	854	849	853
10°	852	849	853
15°	850	849	855
20°	844	849	857
25°	841	850	859
30°	834	848	862
35°	826	845	865
40°	817	844	876
45°	803	845	896
50°	785	850	923
55°	765	863	964
60°	733	880	1017
65°	686	911	1080
70°	624	954	1162
75°	529	1006	1213
80°	418	1013	982
85°	309	770	863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	3.0
10°-20°	172.7	8.6
20°-30°	264.0	13.1
30°-40°	322.8	16.0
40°-50°	344.0	17.1
50°-60°	328.9	16.4
60°-70°	278.6	13.9
70°-80°	187.3	9.3
80°-90°	52.8	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°	496.7	24.7
0°-40°	819.5	40.7
0°-60°	1492.4	74.2
0°-90°	2011.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2011.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	632	632	628	632	632	60
15°	610	610	610	614	614	172
25°	567	569	573	578	579	261
35°	503	507	515	525	527	315
45°	422	429	444	463	471	325
55°	326	338	368	397	411	291
65°	216	237	286	324	339	214
75°	102	139	194	226	233	109
85°	20	41	50	54	56	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	632.5	632.5	632.5	632.5	632.5
2.5°	633.5	633.5	630.5	632.5	632.5
5°	632.5	631.5	628.5	631.5	631.5
7.5°	629.5	628.5	626.5	629.5	628.5
10°	623.5	623.5	621.5	624.5	624.5
12.5°	618.5	617.5	616.5	620.5	619.5
15°	610.5	610.5	609.5	614.5	613.5
17.5°	600.5	601.5	602.5	606.5	607.5
20°	589.6	591.6	592.6	598.5	598.5
22.5°	579.6	580.6	582.6	588.6	588.6
25°	566.6	568.6	572.6	577.6	578.6
27.5°	553.6	554.6	559.6	566.6	567.6
30°	536.7	539.7	545.7	553.6	554.6
32.5°	521.7	524.7	531.7	539.7	541.7
35°	502.8	506.8	514.7	524.7	526.7
37.5°	485.8	488.8	498.8	509.8	512.7
40°	464.9	470.8	480.8	493.8	498.8
42.5°	443.9	449.9	461.9	478.8	484.8
45°	422.0	429.0	443.9	462.9	470.8
47.5°	400.0	408.0	425.0	446.9	455.9
50°	375.1	385.1	406.0	430.9	440.9
52.5°	351.1	363.1	386.1	414.0	427.0
55°	326.2	338.2	368.1	397.0	411.0
57.5°	298.3	314.2	347.2	380.1	395.0
60°	272.3	287.3	327.2	363.1	378.1
62.5°	244.4	264.4	307.2	345.2	360.1
65°	215.5	237.4	286.3	324.2	339.2
67.5°	189.5	213.5	265.4	303.3	318.2
70°	158.6	188.5	242.4	280.3	295.3
72.5°	129.7	162.6	218.5	255.4	269.3
75°	101.8	138.7	193.5	226.4	233.4
77.5°	75.8	114.7	167.6	181.6	176.6
80°	53.9	91.8	130.7	123.7	126.7
82.5°	34.9	69.8	80.8	91.8	94.8
85°	20.0	40.9	49.9	53.9	55.9
87.5°	9.0	15.0	20.0	20.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)