

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: P276883

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276883  
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-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: 1843.8 lumens  
Efficiency: N/A  
Efficacy: 94.4 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

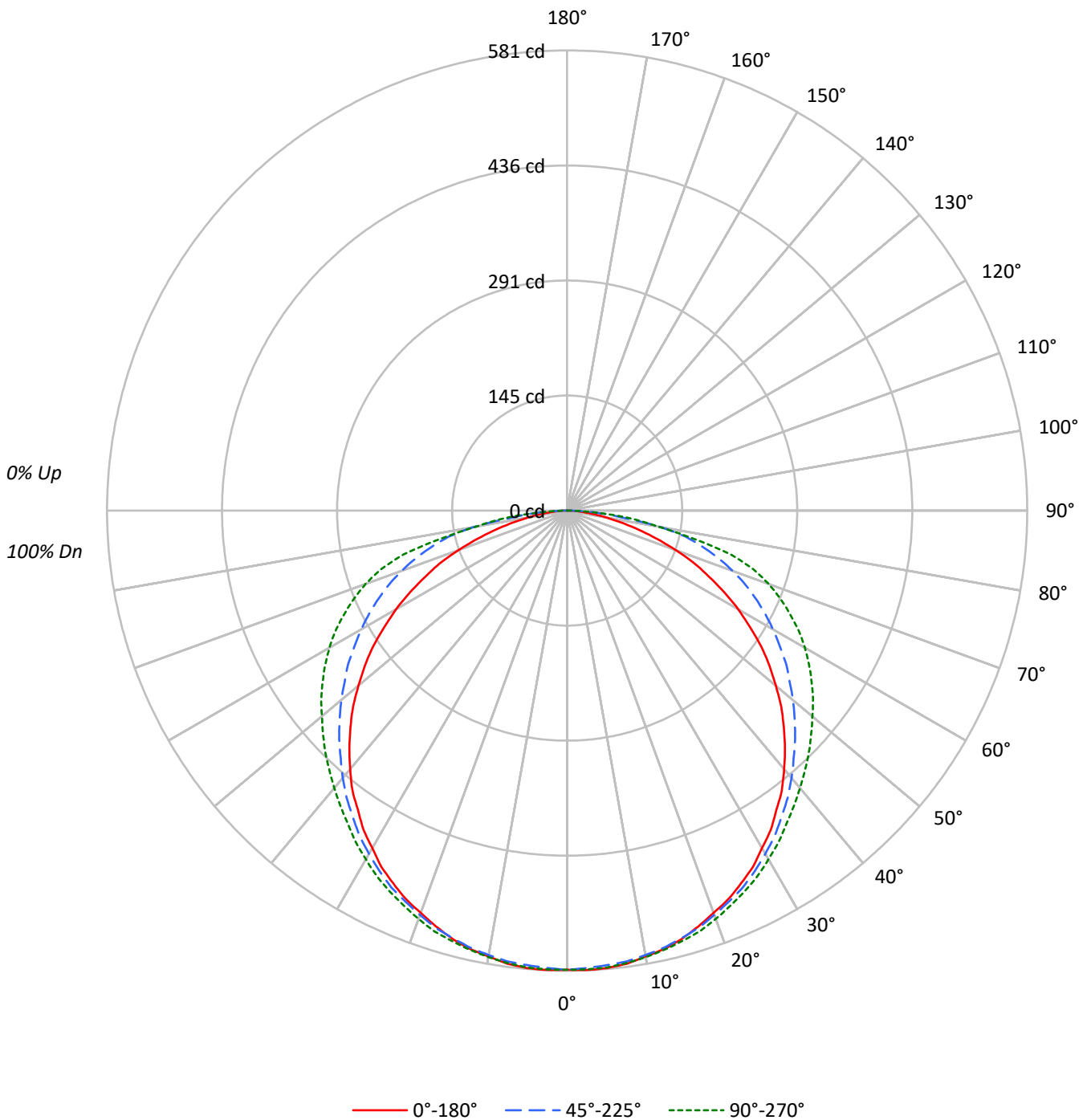
Input Watts (W): 19.53  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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°	780	780	780
5°	783	778	782
10°	781	778	782
15°	780	778	784
20°	774	778	786
25°	771	779	787
30°	764	777	790
35°	757	775	793
40°	749	774	803
45°	736	774	821
50°	720	779	846
55°	702	792	884
60°	672	807	933
65°	629	836	990
70°	572	874	1065
75°	485	922	1112
80°	383	928	900
85°	283	706	790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.0	3.0
10°-20°	158.3	8.6
20°-30°	242.1	13.1
30°-40°	295.9	16.0
40°-50°	315.4	17.1
50°-60°	301.6	16.4
60°-70°	255.5	13.9
70°-80°	171.7	9.3
80°-90°	48.4	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°	455.4	24.7
0°-40°	751.3	40.7
0°-60°	1368.3	74.2
0°-90°	1843.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1843.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	580	580	580	580	580	
5°	580	579	576	579	579	55
15°	560	560	559	563	562	158
25°	520	521	525	530	530	239
35°	461	465	472	481	483	289
45°	387	393	407	424	432	298
55°	299	310	338	364	377	266
65°	198	218	262	297	311	196
75°	93	127	177	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°	579.8	579.8	579.8	579.8	579.8
2.5°	580.7	580.7	578.0	579.8	579.8
5°	579.8	578.9	576.2	578.9	578.9
7.5°	577.1	576.2	574.3	577.1	576.2
10°	571.6	571.6	569.8	572.5	572.5
12.5°	567.0	566.1	565.2	568.9	567.9
15°	559.7	559.7	558.8	563.4	562.5
17.5°	550.6	551.5	552.4	556.1	557.0
20°	540.5	542.3	543.3	548.7	548.7
22.5°	531.4	532.3	534.1	539.6	539.6
25°	519.5	521.3	525.0	529.5	530.4
27.5°	507.6	508.5	513.1	519.5	520.4
30°	492.0	494.8	500.3	507.6	508.5
32.5°	478.3	481.1	487.5	494.8	496.6
35°	460.9	464.6	471.9	481.1	482.9
37.5°	445.4	448.1	457.3	467.3	470.1
40°	426.2	431.7	440.8	452.7	457.3
42.5°	407.0	412.5	423.4	439.0	444.5
45°	386.9	393.3	407.0	424.4	431.7
47.5°	366.7	374.1	389.6	409.7	418.0
50°	343.9	353.0	372.2	395.1	404.2
52.5°	321.9	332.9	353.9	379.5	391.4
55°	299.1	310.0	337.5	364.0	376.8
57.5°	273.5	288.1	318.3	348.4	362.2
60°	249.7	263.4	300.0	332.9	346.6
62.5°	224.1	242.4	281.7	316.4	330.2
65°	197.5	217.7	262.5	297.2	311.0
67.5°	173.8	195.7	243.3	278.0	291.7
70°	145.4	172.9	222.2	257.0	270.7
72.5°	118.9	149.1	200.3	234.1	246.9
75°	93.3	127.1	177.4	207.6	214.0
77.5°	69.5	105.2	153.6	166.5	161.9
80°	49.4	84.1	119.8	113.4	116.1
82.5°	32.0	64.0	74.1	84.1	86.9
85°	18.3	37.5	45.7	49.4	51.2
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)