

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: P277021

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277021
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-L92765-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: 1770.1 lumens
Efficiency: N/A
Efficacy: 88.5 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

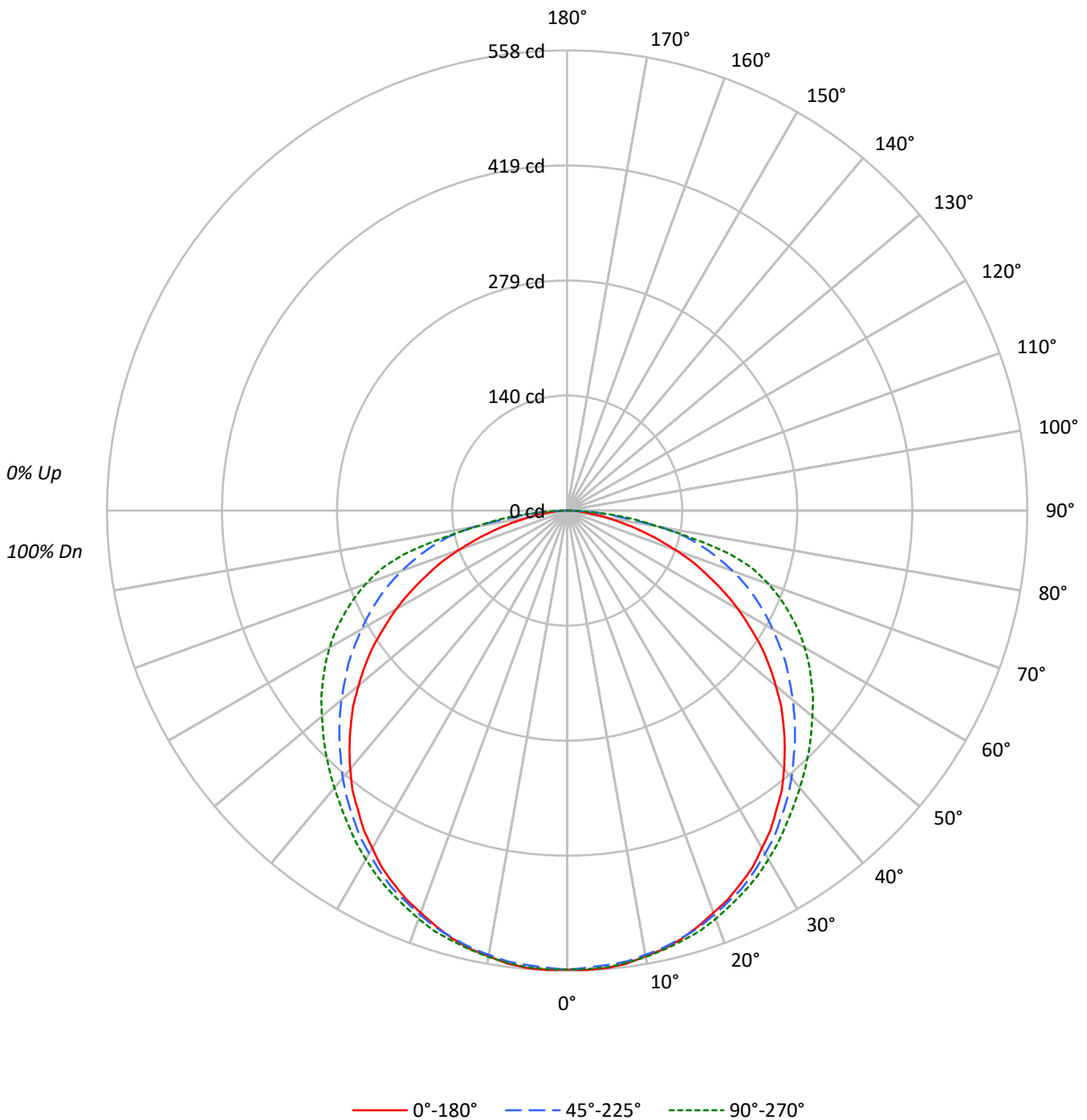
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	749	749	749
5°	752	747	751
10°	750	747	751
15°	748	747	752
20°	743	747	754
25°	740	748	756
30°	734	746	758
35°	727	744	761
40°	719	743	771
45°	707	743	789
50°	691	748	812
55°	673	760	848
60°	645	775	895
65°	604	802	950
70°	549	839	1022
75°	466	885	1068
80°	367	891	864
85°	272	678	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	3.0
10°-20°	152.0	8.6
20°-30°	232.4	13.1
30°-40°	284.1	16.0
40°-50°	302.8	17.1
50°-60°	289.5	16.4
60°-70°	245.2	13.9
70°-80°	164.8	9.3
80°-90°	46.5	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°	437.1	24.7
0°-40°	721.2	40.7
0°-60°	1313.5	74.2
0°-90°	1770.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1770.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	557	557	557	557	557	
5°	557	556	553	556	556	53
15°	537	537	536	541	540	151
25°	499	500	504	508	509	230
35°	442	446	453	462	464	277
45°	371	378	391	407	414	286
55°	287	298	324	349	362	256
65°	190	209	252	285	298	188
75°	90	122	170	199	205	96
85°	18	36	44	47	49	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	556.6	556.6	556.6	556.6	556.6
2.5°	557.5	557.5	554.9	556.6	556.6
5°	556.6	555.7	553.1	555.7	555.7
7.5°	554.0	553.1	551.4	554.0	553.1
10°	548.7	548.7	547.0	549.6	549.6
12.5°	544.3	543.5	542.6	546.1	545.2
15°	537.3	537.3	536.4	540.8	539.9
17.5°	528.5	529.4	530.3	533.8	534.7
20°	518.9	520.6	521.5	526.8	526.8
22.5°	510.1	511.0	512.7	518.0	518.0
25°	498.7	500.4	503.9	508.3	509.2
27.5°	487.3	488.1	492.5	498.7	499.6
30°	472.3	475.0	480.2	487.3	488.1
32.5°	459.2	461.8	468.0	475.0	476.7
35°	442.5	446.0	453.0	461.8	463.6
37.5°	427.6	430.2	439.0	448.6	451.3
40°	409.1	414.4	423.2	434.6	439.0
42.5°	390.7	396.0	406.5	421.4	426.7
45°	371.4	377.5	390.7	407.4	414.4
47.5°	352.1	359.1	374.0	393.3	401.2
50°	330.1	338.9	357.3	379.3	388.1
52.5°	309.0	319.6	339.8	364.4	375.8
55°	287.1	297.6	324.0	349.4	361.7
57.5°	262.5	276.6	305.5	334.5	347.7
60°	239.7	252.9	288.0	319.6	332.7
62.5°	215.1	232.7	270.4	303.8	316.9
65°	189.6	209.0	252.0	285.3	298.5
67.5°	166.8	187.9	233.5	266.9	280.1
70°	139.6	165.9	213.3	246.7	259.9
72.5°	114.1	143.1	192.3	224.8	237.0
75°	89.6	122.0	170.3	199.3	205.4
77.5°	66.7	101.0	147.5	159.8	155.4
80°	47.4	80.8	115.0	108.9	111.5
82.5°	30.7	61.5	71.1	80.8	83.4
85°	17.6	36.0	43.9	47.4	49.2
87.5°	7.9	13.2	17.6	17.6	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)