

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: P277025

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277025
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-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1854.0 lumens
Efficiency: N/A
Efficacy: 90.2 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

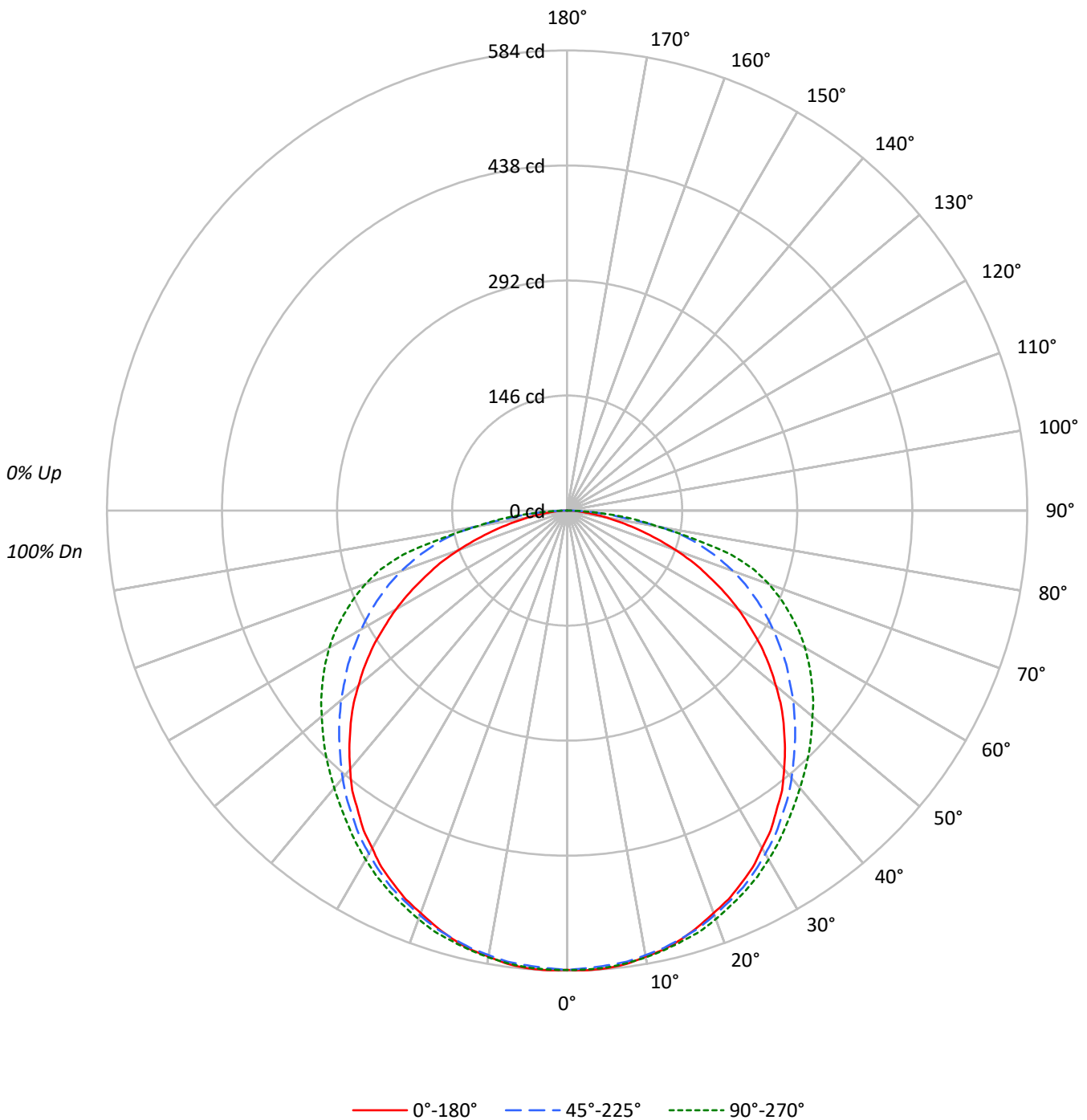
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	784	784	784
5°	787	783	786
10°	785	783	787
15°	784	783	788
20°	778	782	790
25°	775	784	792
30°	769	781	794
35°	761	779	798
40°	753	779	808
45°	740	779	826
50°	724	783	851
55°	705	796	889
60°	676	812	938
65°	632	840	996
70°	575	879	1071
75°	488	927	1119
80°	385	934	905
85°	284	710	795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	3.0
10°-20°	159.2	8.6
20°-30°	243.4	13.1
30°-40°	297.6	16.0
40°-50°	317.1	17.1
50°-60°	303.2	16.4
60°-70°	256.9	13.9
70°-80°	172.6	9.3
80°-90°	48.7	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°	457.9	24.7
0°-40°	755.5	40.7
0°-60°	1375.8	74.2
0°-90°	1854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	583	582	579	582	582	55
15°	563	563	562	566	566	159
25°	522	524	528	532	533	241
35°	464	467	474	484	486	290
45°	389	395	409	427	434	300
55°	301	312	339	366	379	268
65°	199	219	264	299	313	197
75°	94	128	178	209	215	100
85°	18	38	46	50	52	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	583.0	583.0	583.0	583.0	583.0
2.5°	584.0	584.0	581.2	583.0	583.0
5°	583.0	582.1	579.4	582.1	582.1
7.5°	580.3	579.4	577.5	580.3	579.4
10°	574.8	574.8	572.9	575.7	575.7
12.5°	570.2	569.2	568.3	572.0	571.1
15°	562.8	562.8	561.9	566.5	565.6
17.5°	553.6	554.5	555.4	559.1	560.0
20°	543.5	545.3	546.3	551.8	551.8
22.5°	534.3	535.2	537.1	542.6	542.6
25°	522.3	524.2	527.9	532.5	533.4
27.5°	510.4	511.3	515.9	522.3	523.3
30°	494.8	497.5	503.0	510.4	511.3
32.5°	481.0	483.7	490.2	497.5	499.4
35°	463.5	467.2	474.5	483.7	485.6
37.5°	447.9	450.6	459.8	469.9	472.7
40°	428.5	434.1	443.3	455.2	459.8
42.5°	409.2	414.7	425.8	441.4	446.9
45°	389.0	395.4	409.2	426.7	434.1
47.5°	368.8	376.1	391.8	412.0	420.3
50°	345.8	355.0	374.3	397.3	406.5
52.5°	323.7	334.7	355.9	381.6	393.6
55°	300.7	311.7	339.3	366.0	378.9
57.5°	275.0	289.7	320.0	350.4	364.2
60°	251.1	264.8	301.6	334.7	348.5
62.5°	225.3	243.7	283.2	318.2	332.0
65°	198.6	218.9	263.9	298.9	312.7
67.5°	174.7	196.8	244.6	279.6	293.4
70°	146.2	173.8	223.5	258.4	272.2
72.5°	119.5	149.9	201.4	235.4	248.3
75°	93.8	127.8	178.4	208.8	215.2
77.5°	69.9	105.8	154.5	167.4	162.8
80°	49.7	84.6	120.5	114.0	116.8
82.5°	32.2	64.4	74.5	84.6	87.4
85°	18.4	37.7	46.0	49.7	51.5
87.5°	8.3	13.8	18.4	18.4	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)