

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: P276179

Luminaire Tested: **24CZ2-30HE-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30HE-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2485.1 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

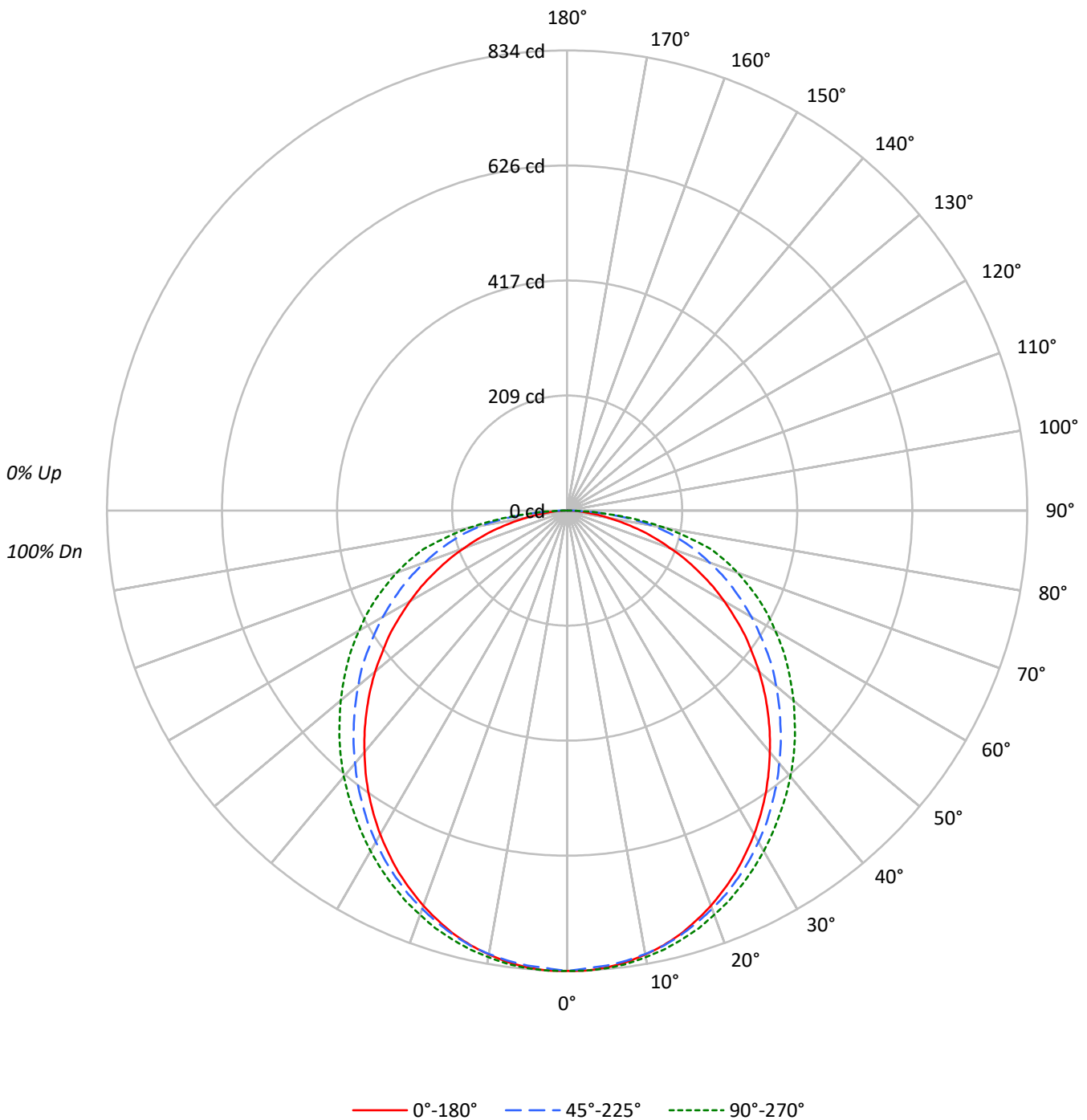
Input Watts (W): 19.623
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1123	1123	1123
5°	1123	1118	1125
10°	1116	1115	1123
15°	1107	1109	1121
20°	1091	1100	1116
25°	1074	1090	1112
30°	1053	1077	1107
35°	1030	1064	1103
40°	1004	1050	1106
45°	978	1040	1111
50°	951	1035	1122
55°	922	1033	1142
60°	886	1038	1172
65°	840	1053	1223
70°	780	1080	1292
75°	712	1134	1402
80°	585	1221	1401
85°	448	1127	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	3.2
10°-20°	225.3	9.1
20°-30°	339.0	13.6
30°-40°	406.3	16.3
40°-50°	423.4	17.0
50°-60°	393.9	15.9
60°-70°	324.4	13.1
70°-80°	220.9	8.9
80°-90°	72.9	2.9
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°	643.2	25.9
0°-40°	1049.5	42.2
0°-60°	1866.8	75.1
0°-90°	2485.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	831	831	828	832	833	79
15°	795	795	796	804	804	224
25°	723	727	734	746	749	333
35°	627	634	648	665	672	392
45°	514	525	547	574	584	397
55°	393	406	440	475	487	350
65°	264	286	331	370	384	262
75°	137	168	218	257	270	144
85°	29	56	73	78	78	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	834.4	834.4	834.4	834.4	834.4
2.5°	834.4	834.4	830.2	834.4	834.4
5°	831.1	831.1	827.7	831.9	832.7
7.5°	825.3	826.1	822.8	827.7	828.6
10°	817.0	817.8	816.1	821.1	821.9
12.5°	807.0	807.8	807.8	813.6	814.5
15°	794.6	795.4	796.2	803.7	804.5
17.5°	778.8	781.3	783.0	792.1	793.7
20°	762.2	764.7	768.0	778.0	779.6
22.5°	743.1	746.5	752.3	763.0	765.5
25°	723.2	726.6	734.0	746.5	748.9
27.5°	700.8	705.8	714.9	728.2	731.5
30°	677.6	682.6	693.4	707.5	712.5
32.5°	652.7	659.4	671.8	687.6	692.6
35°	627.0	634.5	647.8	665.2	671.8
37.5°	599.7	608.0	623.7	642.8	651.1
40°	571.5	581.4	598.0	620.4	629.5
42.5°	543.3	552.4	573.1	597.2	607.1
45°	514.2	525.0	546.6	573.9	583.9
47.5°	484.4	495.2	520.9	549.9	559.0
50°	454.5	465.3	494.3	525.0	535.8
52.5°	422.2	436.3	469.4	500.1	510.9
55°	393.1	406.4	440.4	475.2	486.9
57.5°	360.0	375.7	413.0	449.5	462.0
60°	329.3	345.9	385.7	423.0	435.4
62.5°	297.8	316.0	358.3	396.5	410.6
65°	263.7	286.1	330.9	369.9	384.0
67.5°	233.1	256.3	303.6	343.4	355.8
70°	198.2	226.4	274.5	314.3	328.4
72.5°	168.4	196.6	247.2	286.1	300.2
75°	136.9	167.5	218.1	257.1	269.6
77.5°	105.3	139.3	189.9	219.8	223.9
80°	75.5	111.1	157.6	175.0	180.8
82.5°	53.1	85.4	116.1	127.7	131.0
85°	29.0	56.4	73.0	78.0	78.0
87.5°	12.4	24.1	29.0	29.9	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)