

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: P261348

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2520.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

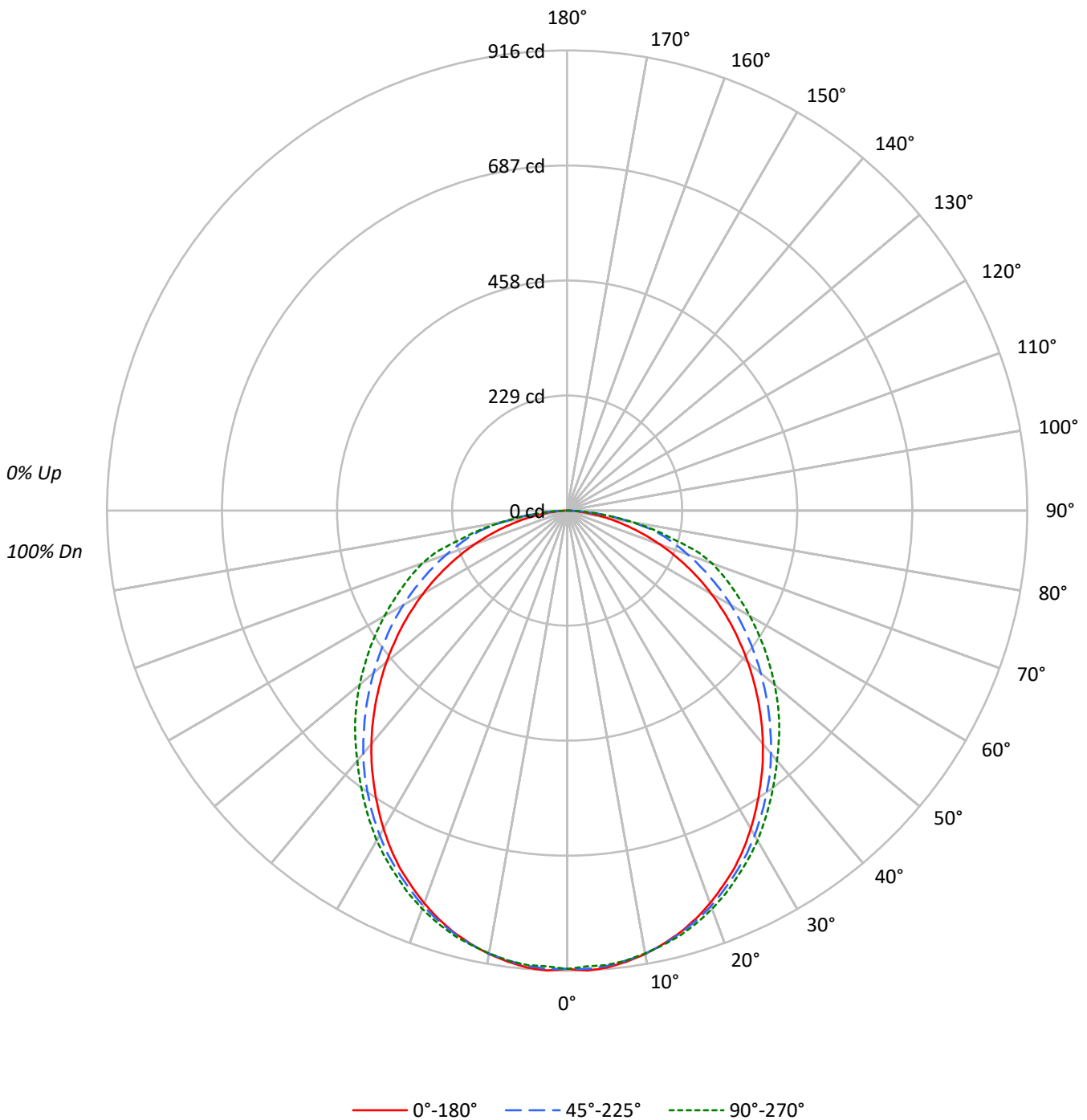
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1227	1227	1227
5°	1233	1229	1227
10°	1225	1223	1222
15°	1211	1214	1218
20°	1191	1199	1208
25°	1168	1180	1193
30°	1136	1159	1178
35°	1101	1135	1158
40°	1065	1109	1141
45°	1024	1080	1136
50°	983	1053	1129
55°	940	1031	1125
60°	891	1013	1130
65°	838	1001	1153
70°	772	1006	1207
75°	684	1042	1124
80°	572	988	1013
85°	428	789	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	3.4
10°-20°	245.3	9.7
20°-30°	365.6	14.5
30°-40°	430.3	17.1
40°-50°	437.3	17.4
50°-60°	393.2	15.6
60°-70°	310.6	12.3
70°-80°	197.1	7.8
80°-90°	54.4	2.2
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°	697.1	27.7
0°-40°	1127.5	44.7
0°-60°	1957.9	77.7
0°-90°	2520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2520.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	913	906	910	908	908	87
15°	870	865	871	874	875	245
25°	786	786	795	800	803	362
35°	670	674	691	698	705	419
45°	538	546	568	584	597	415
55°	401	411	439	468	480	358
65°	263	277	314	349	362	261
75°	132	154	200	218	216	140
85°	28	48	51	47	47	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.3	912.3	912.3	912.3	912.3
2.5°	916.5	909.8	913.1	911.4	908.1
5°	913.1	905.6	909.8	908.1	908.1
7.5°	905.6	899.7	903.1	902.2	903.1
10°	896.4	890.5	895.5	895.5	894.7
12.5°	883.8	878.7	884.6	884.6	885.5
15°	869.5	865.3	871.2	873.7	874.6
17.5°	851.9	847.7	855.3	857.8	860.3
20°	831.8	830.1	837.7	840.2	843.5
22.5°	809.2	809.2	816.7	820.1	825.1
25°	786.5	785.7	794.9	799.9	803.3
27.5°	759.7	760.5	772.3	777.3	781.5
30°	731.2	732.8	746.3	752.1	758.0
32.5°	701.0	704.3	719.4	726.1	732.0
35°	670.0	674.2	690.9	698.5	705.2
37.5°	638.9	644.8	662.4	670.0	677.5
40°	606.2	611.3	631.4	640.6	649.8
42.5°	572.7	579.4	599.5	612.9	623.8
45°	538.3	545.9	567.7	584.4	597.0
47.5°	503.9	514.0	535.0	557.6	568.5
50°	469.6	479.6	503.1	528.3	539.2
52.5°	434.3	444.4	471.2	497.2	509.0
55°	400.8	410.9	439.4	467.9	479.6
57.5°	365.6	376.5	408.3	437.7	449.4
60°	331.2	342.1	376.5	407.5	420.1
62.5°	297.7	309.4	345.5	378.2	390.7
65°	263.3	276.7	314.4	348.8	362.2
67.5°	229.7	244.8	284.3	320.3	334.6
70°	196.2	213.8	255.7	292.6	306.9
72.5°	163.5	182.8	227.2	264.1	271.7
75°	131.6	154.3	200.4	218.0	216.3
77.5°	101.5	126.6	170.2	173.6	178.6
80°	73.8	101.5	127.5	134.2	130.8
82.5°	48.6	76.3	91.4	88.0	87.2
85°	27.7	47.8	51.1	47.0	47.0
87.5°	11.7	19.3	16.8	12.6	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)