

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: P263739

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-RDP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2198.0 lumens
Efficiency: N/A
Efficacy: 98.1 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

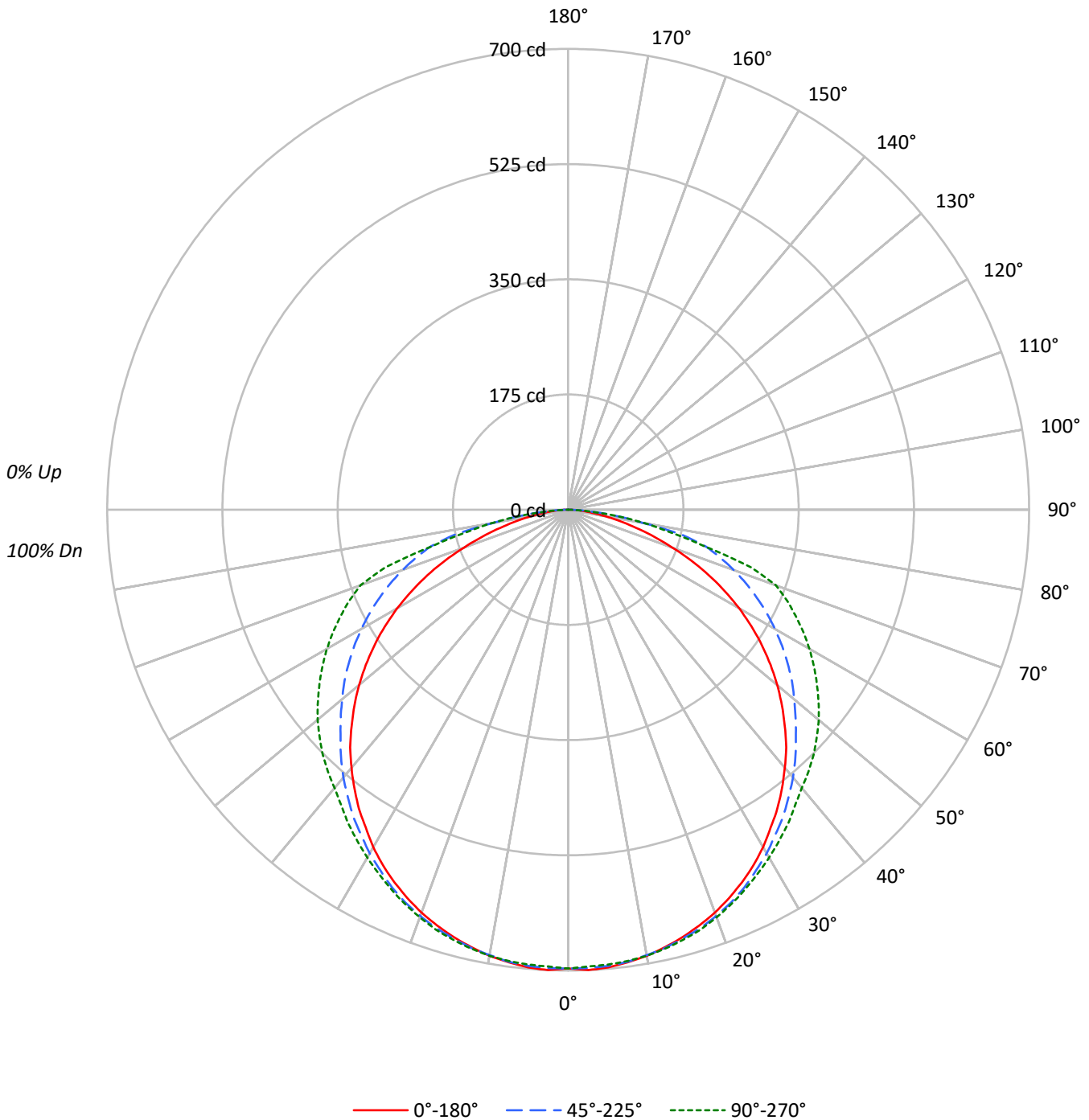
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263739

CATALOG NUMBER: 24CZ-LD5-30SE-RDP-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P263739

CATALOG NUMBER: 24CZ-LD5-30SE-RDP-UNV-L82765-W2A1-U-5700K

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	101	97	93	96	93	90	92	90	87	89	87	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	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	938	938	938
5°	943	940	937
10°	940	939	940
15°	936	939	942
20°	933	940	943
25°	927	940	944
30°	919	936	948
35°	910	935	956
40°	899	933	969
45°	885	930	1003
50°	867	938	1039
55°	843	954	1081
60°	806	975	1138
65°	751	1006	1213
70°	664	1051	1319
75°	557	1125	1108
80°	444	889	922
85°	350	602	551



TEST NUMBER: P263739

CATALOG NUMBER: 24CZ-LD5-30SE-RDP-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	3.0
10°-20°	190.2	8.7
20°-30°	290.5	13.2
30°-40°	355.2	16.2
40°-50°	380.2	17.3
50°-60°	364.7	16.6
60°-70°	307.9	14.0
70°-80°	196.8	9.0
80°-90°	46.5	2.1
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°	546.8	24.9
0°-40°	902.0	41.0
0°-60°	1646.8	74.9
0°-90°	2198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	698	694	696	695	694	66
15°	672	670	674	676	676	190
25°	624	623	633	635	636	288
35°	554	558	569	577	582	346
45°	465	473	489	512	527	359
55°	359	371	407	444	461	321
65°	236	259	316	360	381	233
75°	107	153	216	221	213	115
85°	23	38	39	38	36	27
90°	0	0	0	0	0	



TEST NUMBER: P263739

CATALOG NUMBER: 24CZ-LD5-30SE-RDP-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.8	696.8	696.8	696.8	696.8
2.5°	700.0	695.7	696.8	696.8	694.6
5°	697.9	693.5	695.7	694.6	693.5
7.5°	693.5	690.3	692.5	692.5	691.4
10°	688.1	684.9	687.0	688.1	688.1
12.5°	680.6	678.4	681.6	681.6	682.7
15°	671.9	669.7	674.1	676.2	676.2
17.5°	662.2	661.1	666.5	667.6	668.7
20°	651.3	650.3	656.8	656.8	658.9
22.5°	638.4	637.3	645.9	645.9	648.1
25°	624.3	623.2	632.9	635.1	636.2
27.5°	609.1	608.1	617.8	621.0	623.2
30°	591.8	591.8	602.7	607.0	610.2
32.5°	572.4	575.6	585.3	591.8	596.2
35°	554.0	558.3	569.1	576.7	582.1
37.5°	533.4	537.7	549.6	559.4	565.9
40°	511.8	517.2	531.2	542.1	551.8
42.5°	490.1	495.5	510.7	526.9	539.9
45°	465.2	472.8	489.0	511.8	526.9
47.5°	440.4	447.9	468.5	496.6	511.8
50°	414.4	423.0	447.9	480.4	496.6
52.5°	387.3	397.1	428.5	463.1	479.3
55°	359.2	371.1	406.8	443.6	460.9
57.5°	330.0	343.0	385.2	424.1	442.5
60°	299.7	315.9	362.5	403.6	423.0
62.5°	268.3	287.8	339.7	381.9	402.5
65°	235.9	258.6	315.9	360.3	380.9
67.5°	202.3	232.6	292.1	338.7	359.2
70°	168.8	204.5	267.2	314.9	335.4
72.5°	137.4	178.5	242.4	286.7	291.0
75°	107.1	152.6	216.4	220.7	213.1
77.5°	80.1	126.6	178.5	159.0	158.0
80°	57.3	101.7	114.7	117.9	119.0
82.5°	37.9	76.8	74.7	76.8	75.7
85°	22.7	37.9	39.0	37.9	35.7
87.5°	10.8	14.1	10.8	9.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)