

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: P263319

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-30SE-SQP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2093.0 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

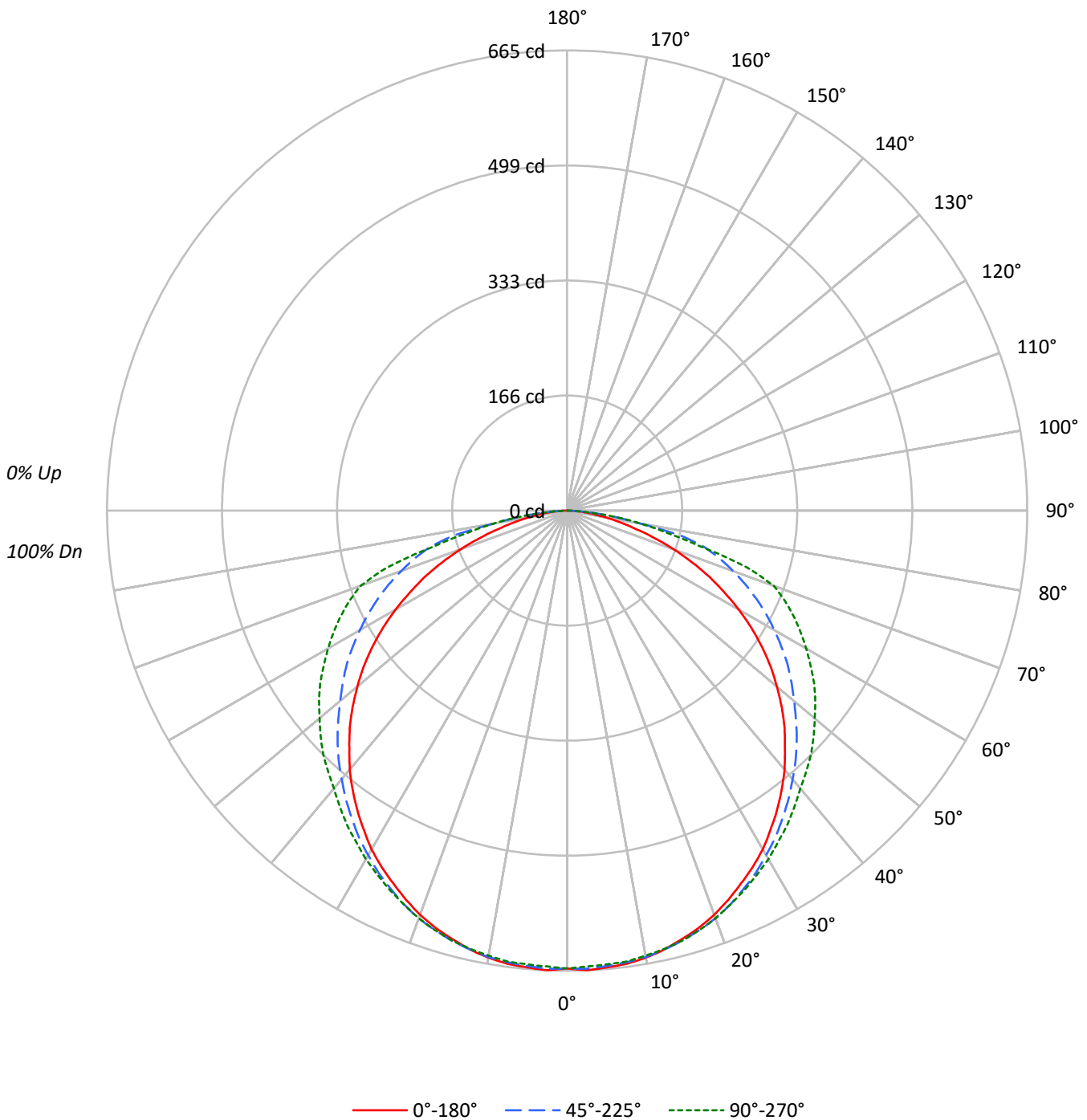
Input Watts (W): 22.413  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	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°	890	890	890
5°	895	892	889
10°	897	895	892
15°	893	896	896
20°	890	898	898
25°	883	896	899
30°	878	893	904
35°	868	891	911
40°	858	891	921
45°	845	893	948
50°	828	896	978
55°	806	913	1022
60°	771	931	1073
65°	723	960	1150
70°	646	1004	1250
75°	534	1074	1034
80°	435	829	838
85°	350	551	517



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.8	3.0
10°-20°	181.3	8.7
20°-30°	277.1	13.2
30°-40°	338.9	16.2
40°-50°	362.7	17.3
50°-60°	347.3	16.6
60°-70°	293.8	14.0
70°-80°	186.2	8.9
80°-90°	42.8	2.0
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°	521.3	24.9
0°-40°	860.2	41.1
0°-60°	1570.2	75.0
0°-90°	2093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	663	660	661	660	658	63
15°	641	640	643	643	643	181
25°	595	595	603	605	605	274
35°	529	532	543	550	555	331
45°	444	452	469	489	498	342
55°	344	355	389	422	436	307
65°	227	249	302	343	361	224
75°	103	145	206	205	199	112
85°	23	35	36	32	34	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	661.6	661.6	661.6	661.6	661.6
2.5°	664.9	661.6	662.7	661.6	659.5
5°	662.7	659.5	660.6	659.5	658.4
7.5°	660.6	657.3	658.4	657.3	657.3
10°	656.2	653.0	655.1	654.1	653.0
12.5°	649.7	647.6	649.7	648.7	648.7
15°	641.1	640.0	643.3	643.3	643.3
17.5°	632.4	631.4	635.7	635.7	635.7
20°	621.6	620.6	627.0	627.0	627.0
22.5°	608.7	607.6	616.2	616.2	616.2
25°	594.6	594.6	603.3	605.4	605.4
27.5°	580.6	580.6	590.3	593.5	593.5
30°	565.4	565.4	575.1	579.5	581.6
32.5°	547.0	549.2	560.0	565.4	567.6
35°	528.7	531.9	542.7	550.3	554.6
37.5°	509.2	512.4	525.4	534.1	539.5
40°	488.7	493.0	507.0	517.8	524.3
42.5°	466.0	472.4	488.7	502.7	511.4
45°	444.3	451.9	469.2	488.7	498.4
47.5°	420.6	429.2	448.7	473.5	483.3
50°	395.7	404.3	428.1	456.2	467.0
52.5°	370.8	380.5	408.7	438.9	451.9
55°	343.8	354.6	389.2	421.6	435.7
57.5°	315.7	328.7	367.6	402.2	417.3
60°	286.5	302.7	346.0	382.7	398.9
62.5°	256.2	275.7	324.3	363.3	380.5
65°	227.0	248.7	301.6	342.7	361.1
67.5°	195.7	222.7	278.9	323.3	340.5
70°	164.3	195.7	255.1	300.5	317.8
72.5°	133.0	170.8	231.4	272.4	272.4
75°	102.7	144.9	206.5	205.4	198.9
77.5°	77.8	121.1	169.7	144.9	145.9
80°	56.2	97.3	107.0	107.0	108.1
82.5°	37.8	74.6	69.2	68.1	70.3
85°	22.7	34.6	35.7	32.4	33.5
87.5°	10.8	11.9	9.7	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)