

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: P260310

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260310  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 2x2 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: 2242.0 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

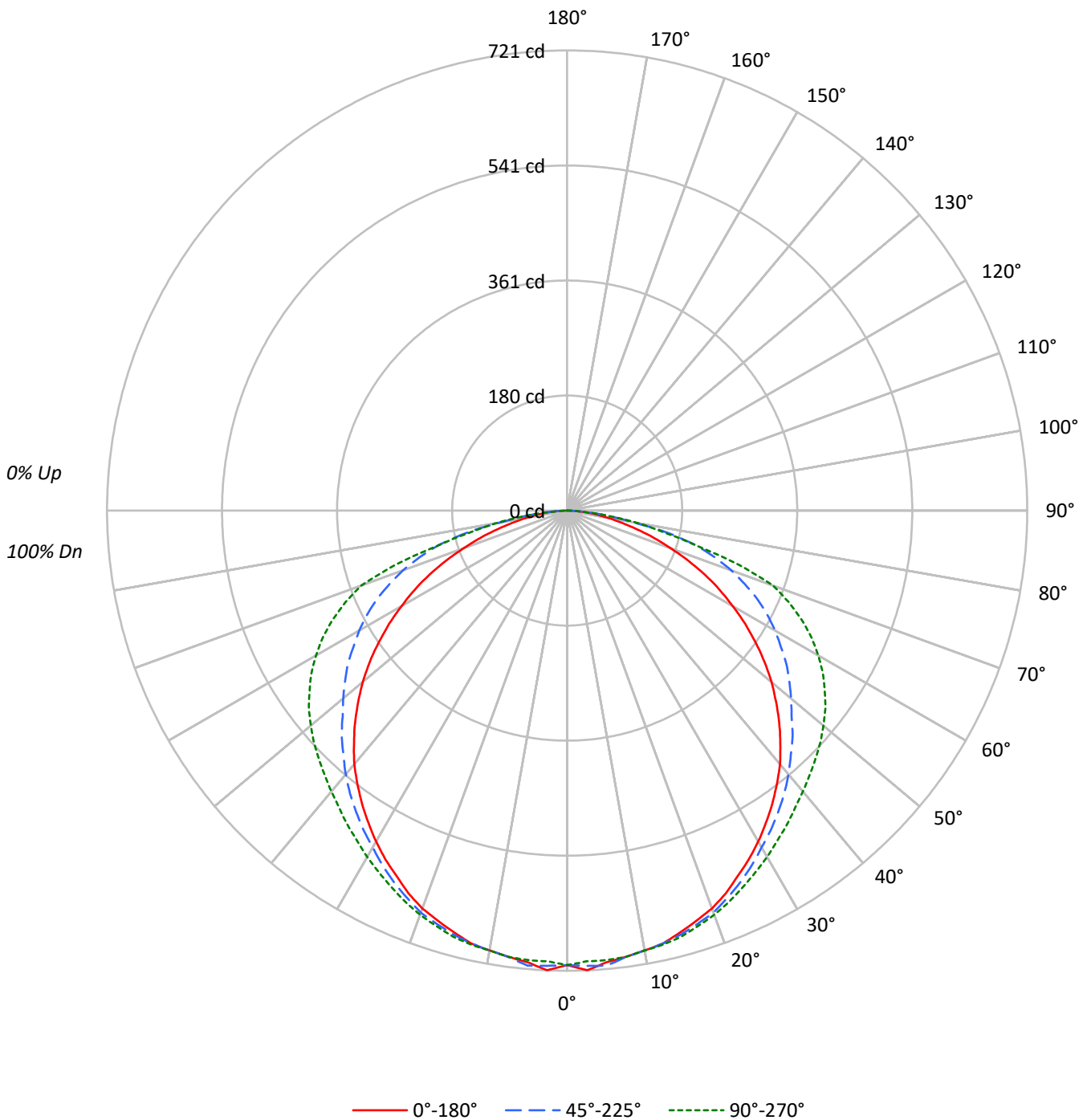
Input Watts (W): 26.412  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	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	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	39	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°	1916	1916	1916
5°	1919	1933	1910
10°	1912	1912	1912
15°	1906	1916	1926
20°	1900	1920	1930
25°	1877	1908	1934
30°	1861	1894	1948
35°	1842	1893	1973
40°	1823	1896	2018
45°	1789	1902	2094
50°	1750	1917	2194
55°	1691	1969	2312
60°	1612	2024	2446
65°	1519	2096	2583
70°	1356	2151	2699
75°	1177	2154	2137
80°	998	1592	1726
85°	861	1074	966



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.6	3.0
10°-20°	194.2	8.7
20°-30°	295.9	13.2
30°-40°	362.1	16.1
40°-50°	389.6	17.4
50°-60°	377.4	16.8
60°-70°	319.7	14.3
70°-80°	193.2	8.6
80°-90°	42.4	1.9
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°	557.7	24.9
0°-40°	919.7	41.0
0°-60°	1686.7	75.2
0°-90°	2242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2242.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	710	710	716	712	707	68
15°	684	686	688	690	691	193
25°	632	636	642	648	651	292
35°	561	564	576	592	601	351
45°	470	479	500	531	550	362
55°	360	376	420	468	493	322
65°	238	265	329	381	406	235
75°	113	153	207	211	206	122
85°	28	33	35	33	31	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	712.1	712.1	712.1	712.1	712.1
2.5°	720.8	719.1	713.9	710.4	706.9
5°	710.4	710.4	715.6	712.1	706.9
7.5°	705.2	705.2	705.2	713.9	705.2
10°	699.9	701.7	699.9	706.9	699.9
12.5°	694.7	694.7	694.7	696.4	696.4
15°	684.3	686.0	687.7	689.5	691.2
17.5°	673.8	675.6	679.0	680.8	682.5
20°	663.4	665.1	670.3	670.3	673.8
22.5°	649.4	649.4	656.4	658.1	663.4
25°	632.0	635.5	642.5	647.7	651.2
27.5°	616.4	619.8	626.8	633.8	639.0
30°	598.9	602.4	609.4	619.8	626.8
32.5°	579.8	583.3	593.7	605.9	612.9
35°	560.6	564.1	576.3	592.0	600.7
37.5°	539.7	545.0	558.9	576.3	586.8
40°	518.9	524.1	539.7	558.9	574.6
42.5°	494.5	501.4	518.9	545.0	562.4
45°	470.1	478.8	499.7	531.0	550.2
47.5°	444.0	452.7	477.1	517.1	538.0
50°	417.9	428.3	457.9	501.4	524.1
52.5°	390.0	400.5	438.8	485.8	510.1
55°	360.4	376.1	419.6	468.4	492.7
57.5°	330.8	348.2	397.0	449.2	475.3
60°	299.5	320.4	376.1	428.3	454.4
62.5°	269.9	292.5	353.4	405.7	431.8
65°	238.5	264.7	329.1	381.3	405.7
67.5°	205.5	238.5	301.2	351.7	376.1
70°	172.4	210.7	273.4	320.4	343.0
72.5°	142.8	182.8	242.0	282.1	282.1
75°	113.2	153.2	207.2	210.7	205.5
77.5°	87.1	125.4	161.9	148.0	151.5
80°	64.4	95.8	102.7	107.9	111.4
82.5°	43.5	64.4	66.2	69.6	69.6
85°	27.9	33.1	34.8	33.1	31.3
87.5°	12.2	13.9	10.4	7.0	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)