

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: P260529

Luminaire Tested: **22CZ-LD5-34-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2294.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

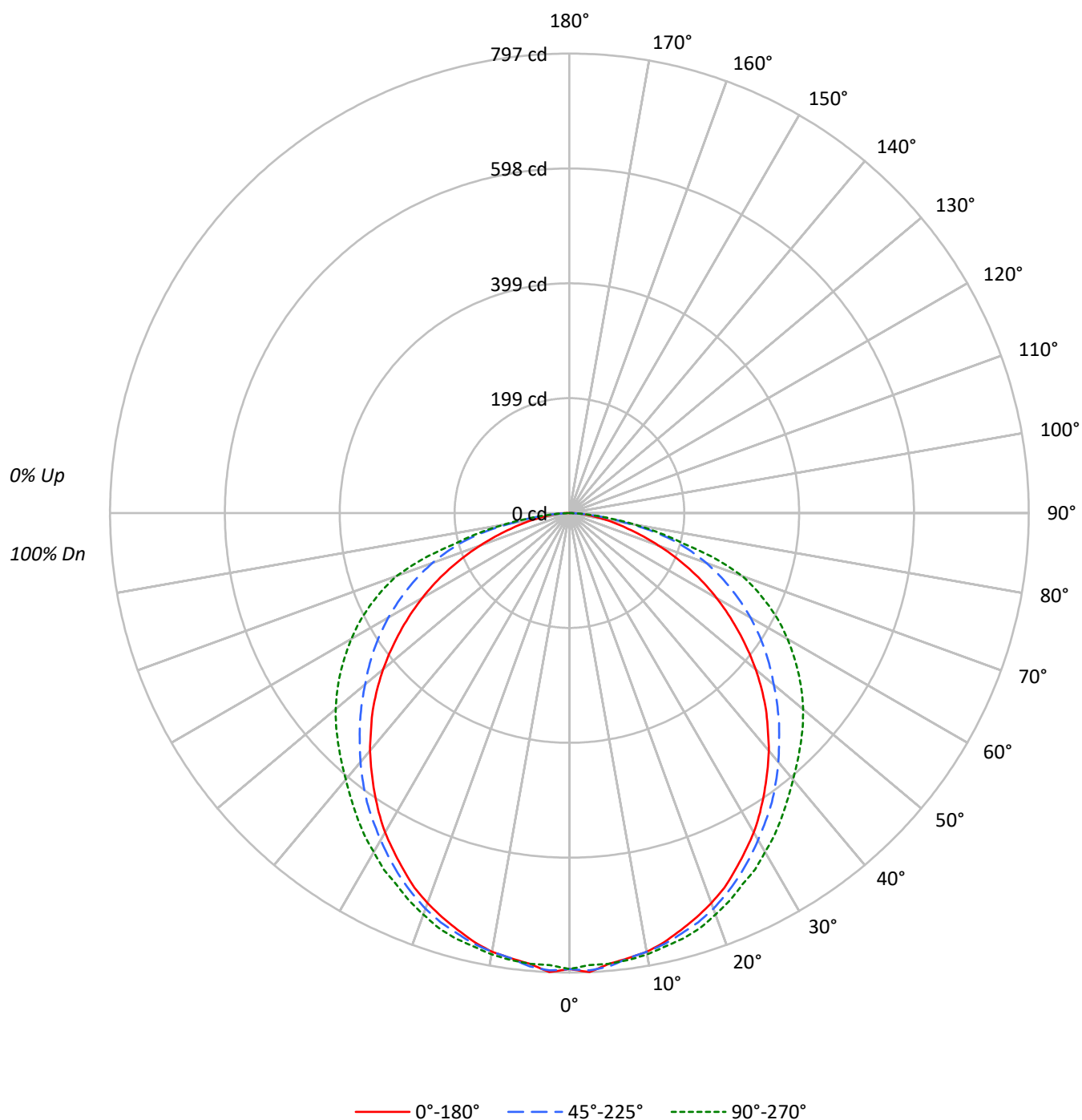
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	26		37	30	25		36	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2128	2128	2128
5°	2120	2132	2120
10°	2111	2111	2124
15°	2085	2102	2128
20°	2061	2092	2122
25°	2025	2065	2110
30°	1988	2035	2110
35°	1938	2012	2111
40°	1891	1982	2120
45°	1836	1957	2158
50°	1766	1937	2216
55°	1681	1944	2277
60°	1587	1953	2352
65°	1464	1964	2436
70°	1297	1987	2511
75°	1101	1981	2139
80°	914	1593	1781
85°	794	1074	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	3.3
10°-20°	213.1	9.3
20°-30°	320.7	14.0
30°-40°	384.3	16.8
40°-50°	400.7	17.5
50°-60°	373.1	16.3
60°-70°	302.9	13.2
70°-80°	182.6	8.0
80°-90°	41.9	1.8
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°	608.5	26.5
0°-40°	992.8	43.3
0°-60°	1766.6	77.0
0°-90°	2294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2294.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	785	785	789	791	785	75
15°	748	752	755	759	764	211
25°	682	686	696	705	711	314
35°	590	597	612	631	643	369
45°	482	492	514	547	567	371
55°	358	374	414	460	485	320
65°	230	254	308	357	383	227
75°	106	141	190	203	206	114
85°	26	32	35	33	33	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	790.9	790.9	790.9	790.9	790.9
2.5°	796.9	795.4	793.9	789.4	784.8
5°	784.8	784.8	789.4	790.9	784.8
7.5°	778.8	778.8	778.8	784.8	781.8
10°	772.7	772.7	772.7	777.3	777.3
12.5°	762.2	763.7	765.2	766.7	769.7
15°	748.5	751.6	754.6	759.1	763.7
17.5°	734.9	738.0	744.0	748.5	754.6
20°	719.8	722.8	730.4	734.9	741.0
22.5°	703.2	704.7	713.8	719.8	727.4
25°	682.0	686.5	695.6	704.7	710.7
27.5°	660.8	665.4	676.0	688.1	697.1
30°	639.7	644.2	654.8	669.9	679.0
32.5°	615.5	621.5	633.6	651.8	662.3
35°	589.8	597.3	612.4	630.6	642.7
37.5°	564.1	571.6	588.2	610.9	623.0
40°	538.3	545.9	564.1	588.2	603.4
42.5°	509.6	518.7	538.3	567.1	585.2
45°	482.4	491.5	514.2	547.4	567.1
47.5°	452.2	462.7	488.4	526.2	548.9
50°	421.9	434.0	462.7	505.1	529.3
52.5°	390.1	403.8	438.5	482.4	508.1
55°	358.4	373.5	414.3	459.7	485.4
57.5°	326.6	343.3	388.6	435.5	461.2
60°	294.9	313.0	362.9	411.3	437.0
62.5°	263.1	282.8	335.7	384.1	411.3
65°	229.9	254.1	308.5	356.9	382.6
67.5°	196.6	225.3	281.3	328.1	352.3
70°	164.8	196.6	252.5	296.4	319.1
72.5°	134.6	167.9	222.3	260.1	269.2
75°	105.9	140.6	190.5	202.6	205.7
77.5°	81.7	113.4	151.2	154.2	161.8
80°	59.0	86.2	102.8	111.9	114.9
82.5°	40.8	59.0	68.0	69.6	71.1
85°	25.7	31.8	34.8	33.3	33.3
87.5°	13.6	12.1	10.6	7.6	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)