

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: P263077

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263077  
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-LD5-35-SQP-UNV-L83050-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2201.0 lumens  
Efficiency: N/A  
Efficacy: 91.2 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

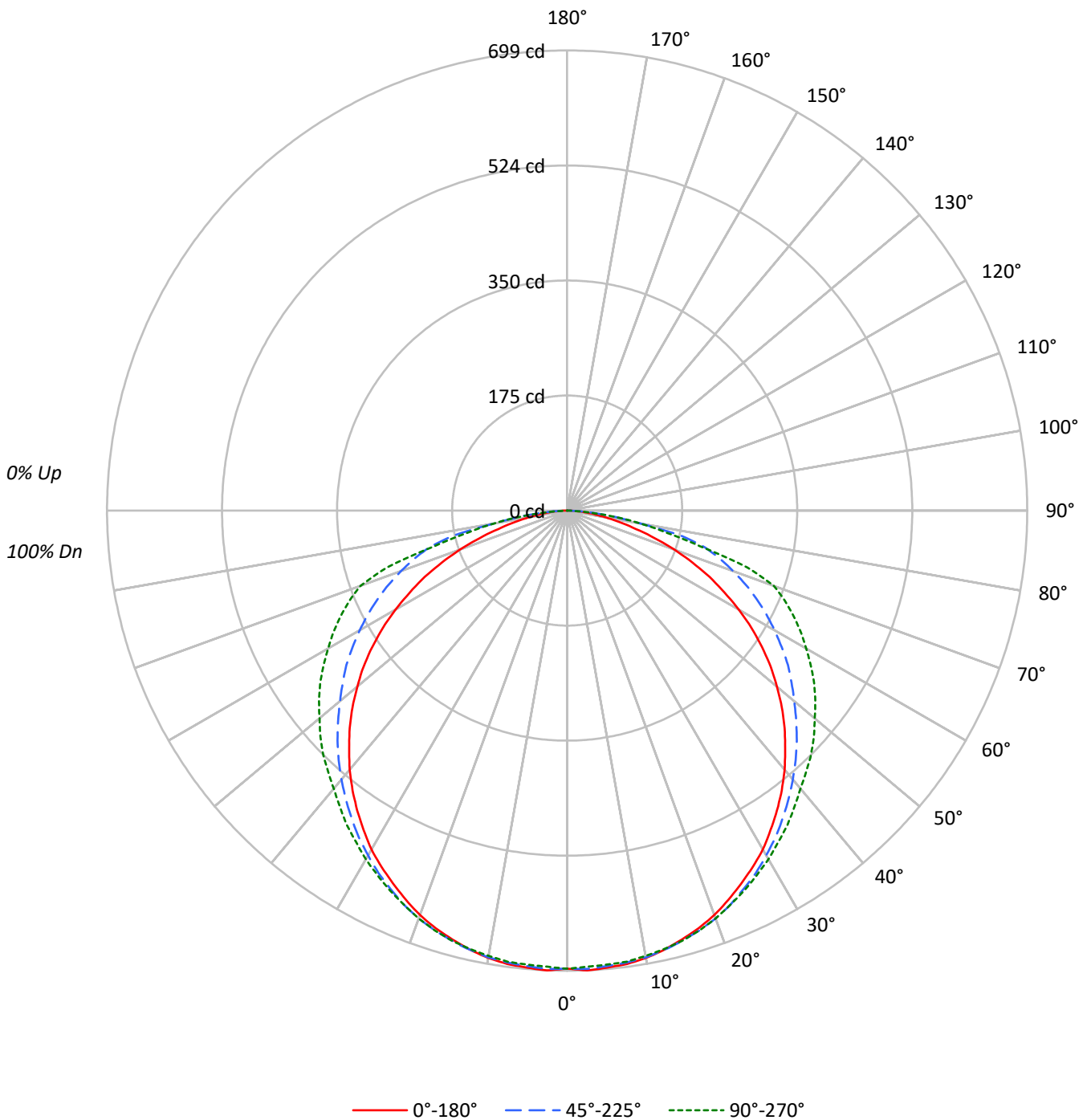
Input Watts (W): 24.13164  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	936	936	936
5°	941	938	935
10°	943	941	938
15°	939	942	942
20°	936	944	944
25°	928	942	945
30°	924	940	950
35°	913	937	958
40°	903	937	968
45°	889	939	997
50°	871	942	1028
55°	848	960	1075
60°	811	979	1129
65°	760	1010	1209
70°	680	1055	1315
75°	561	1129	1088
80°	458	872	881
85°	369	579	543



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.1	3.0
10°-20°	190.7	8.7
20°-30°	291.4	13.2
30°-40°	356.4	16.2
40°-50°	381.4	17.3
50°-60°	365.2	16.6
60°-70°	308.9	14.0
70°-80°	195.8	8.9
80°-90°	45.0	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°	548.2	24.9
0°-40°	904.6	41.1
0°-60°	1651.2	75.0
0°-90°	2201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2201.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	697	694	695	694	692	66
15°	674	673	676	676	676	190
25°	625	625	634	637	637	288
35°	556	559	571	579	583	348
45°	467	475	493	514	524	360
55°	362	373	409	443	458	322
65°	239	262	317	360	380	235
75°	108	152	217	216	209	117
85°	24	36	38	34	35	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	695.8	695.8	695.8	695.8	695.8
2.5°	699.2	695.8	696.9	695.8	693.5
5°	696.9	693.5	694.6	693.5	692.4
7.5°	694.6	691.2	692.4	691.2	691.2
10°	690.1	686.7	689.0	687.8	686.7
12.5°	683.3	681.0	683.3	682.1	682.1
15°	674.2	673.0	676.5	676.5	676.5
17.5°	665.1	663.9	668.5	668.5	668.5
20°	653.7	652.6	659.4	659.4	659.4
22.5°	640.1	638.9	648.0	648.0	648.0
25°	625.3	625.3	634.4	636.7	636.7
27.5°	610.5	610.5	620.7	624.2	624.2
30°	594.6	594.6	604.8	609.4	611.6
32.5°	575.3	577.5	588.9	594.6	596.9
35°	555.9	559.4	570.7	578.7	583.2
37.5°	535.5	538.9	552.5	561.6	567.3
40°	513.9	518.4	533.2	544.6	551.4
42.5°	490.0	496.8	513.9	528.7	537.7
45°	467.3	475.2	493.4	513.9	524.1
47.5°	442.3	451.3	471.8	498.0	508.2
50°	416.1	425.2	450.2	479.8	491.1
52.5°	390.0	400.2	429.7	461.6	475.2
55°	361.5	372.9	409.3	443.4	458.2
57.5°	332.0	345.6	386.5	422.9	438.8
60°	301.3	318.3	363.8	402.5	419.5
62.5°	269.4	289.9	341.1	382.0	400.2
65°	238.7	261.5	317.2	360.4	379.7
67.5°	205.8	234.2	293.3	339.9	358.1
70°	172.8	205.8	268.3	316.1	334.2
72.5°	139.8	179.6	243.3	286.5	286.5
75°	108.0	152.3	217.1	216.0	209.2
77.5°	81.9	127.3	178.5	152.3	153.5
80°	59.1	102.3	112.6	112.6	113.7
82.5°	39.8	78.4	72.8	71.6	73.9
85°	23.9	36.4	37.5	34.1	35.2
87.5°	11.4	12.5	10.2	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)