

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: P263321

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263321  
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-LD5-35SE-SQP-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2161.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 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

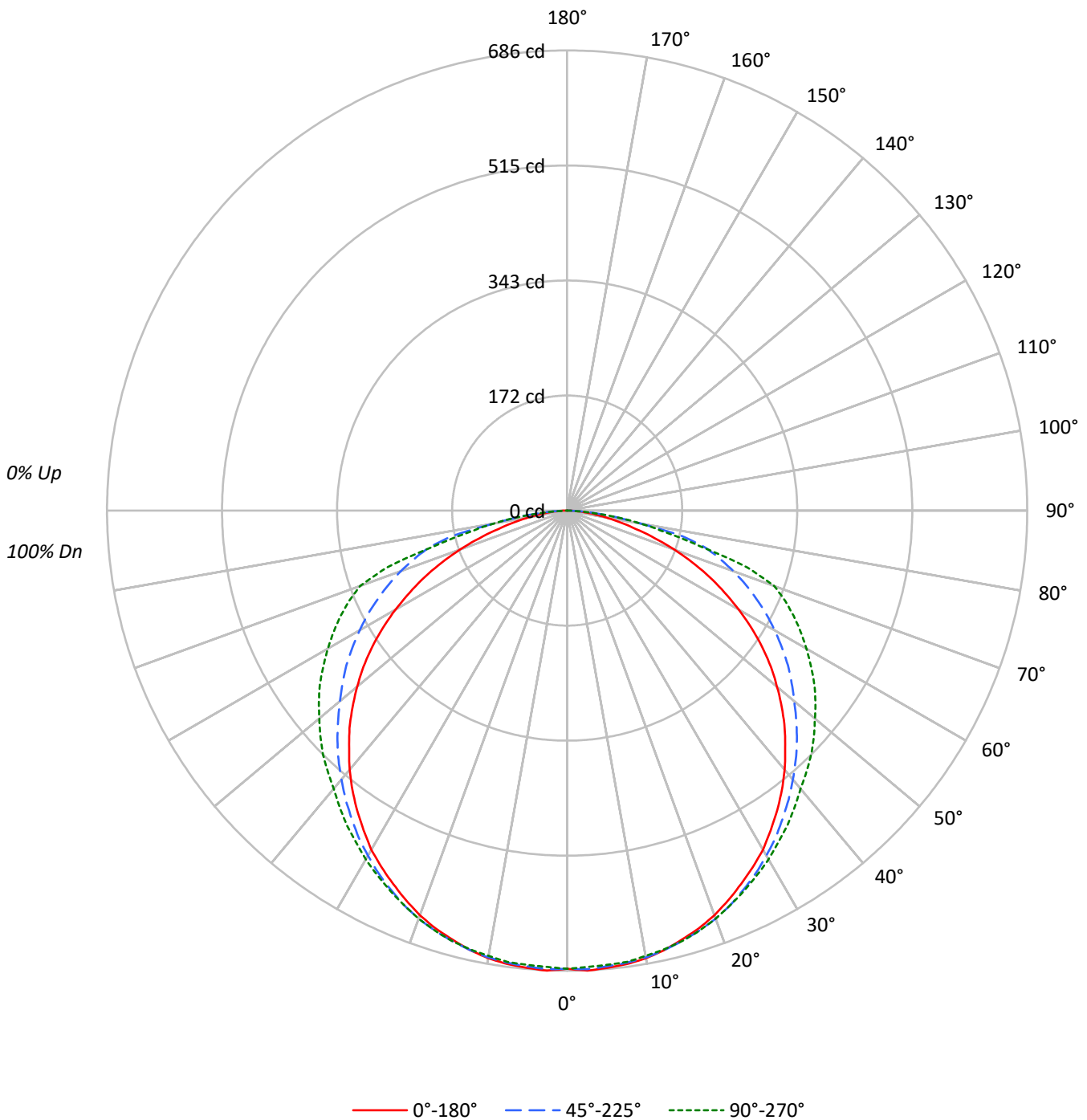
Input Watts (W): 26.04  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	919	919	919
5°	924	921	918
10°	926	924	921
15°	922	925	925
20°	919	927	927
25°	911	925	928
30°	907	923	933
35°	896	920	941
40°	886	919	951
45°	873	922	979
50°	855	925	1009
55°	833	943	1055
60°	796	961	1108
65°	746	991	1187
70°	668	1036	1291
75°	551	1108	1068
80°	449	856	865
85°	361	568	534



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	3.0
10°-20°	187.2	8.7
20°-30°	286.1	13.2
30°-40°	349.9	16.2
40°-50°	374.4	17.3
50°-60°	358.5	16.6
60°-70°	303.3	14.0
70°-80°	192.3	8.9
80°-90°	44.2	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°	538.2	24.9
0°-40°	888.2	41.1
0°-60°	1621.2	75.0
0°-90°	2161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2161.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	683	683	683	683	683	
5°	684	681	682	681	680	65
15°	662	661	664	664	664	187
25°	614	614	623	625	625	283
35°	546	549	560	568	573	341
45°	459	467	484	504	515	353
55°	355	366	402	435	450	317
65°	234	257	311	354	373	231
75°	106	150	213	212	205	115
85°	23	36	37	34	35	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	683.1	683.1	683.1	683.1	683.1
2.5°	686.5	683.1	684.2	683.1	680.9
5°	684.2	680.9	682.0	680.9	679.8
7.5°	682.0	678.7	679.8	678.7	678.7
10°	677.6	674.2	676.4	675.3	674.2
12.5°	670.9	668.6	670.9	669.7	669.7
15°	661.9	660.8	664.2	664.2	664.2
17.5°	653.0	651.9	656.3	656.3	656.3
20°	641.8	640.7	647.4	647.4	647.4
22.5°	628.4	627.3	636.3	636.3	636.3
25°	613.9	613.9	622.9	625.1	625.1
27.5°	599.4	599.4	609.5	612.8	612.8
30°	583.8	583.8	593.8	598.3	600.5
32.5°	564.8	567.0	578.2	583.8	586.0
35°	545.8	549.2	560.3	568.2	572.6
37.5°	525.7	529.1	542.5	551.4	557.0
40°	504.5	509.0	523.5	534.7	541.4
42.5°	481.1	487.8	504.5	519.0	528.0
45°	458.8	466.6	484.4	504.5	514.6
47.5°	434.2	443.1	463.2	488.9	499.0
50°	408.5	417.5	442.0	471.0	482.2
52.5°	382.9	392.9	421.9	453.2	466.6
55°	355.0	366.1	401.8	435.3	449.8
57.5°	325.9	339.3	379.5	415.2	430.9
60°	295.8	312.5	357.2	395.1	411.9
62.5°	264.5	284.6	334.9	375.1	392.9
65°	234.4	256.7	311.4	353.8	372.8
67.5°	202.0	229.9	288.0	333.8	351.6
70°	169.7	202.0	263.4	310.3	328.2
72.5°	137.3	176.4	238.9	281.3	281.3
75°	106.0	149.6	213.2	212.1	205.4
77.5°	80.4	125.0	175.2	149.6	150.7
80°	58.0	100.5	110.5	110.5	111.6
82.5°	39.1	77.0	71.4	70.3	72.6
85°	23.4	35.7	36.8	33.5	34.6
87.5°	11.2	12.3	10.0	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)