

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: P276989

Luminaire Tested: **24CZ2-35-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-35-RDP-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2365.6 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

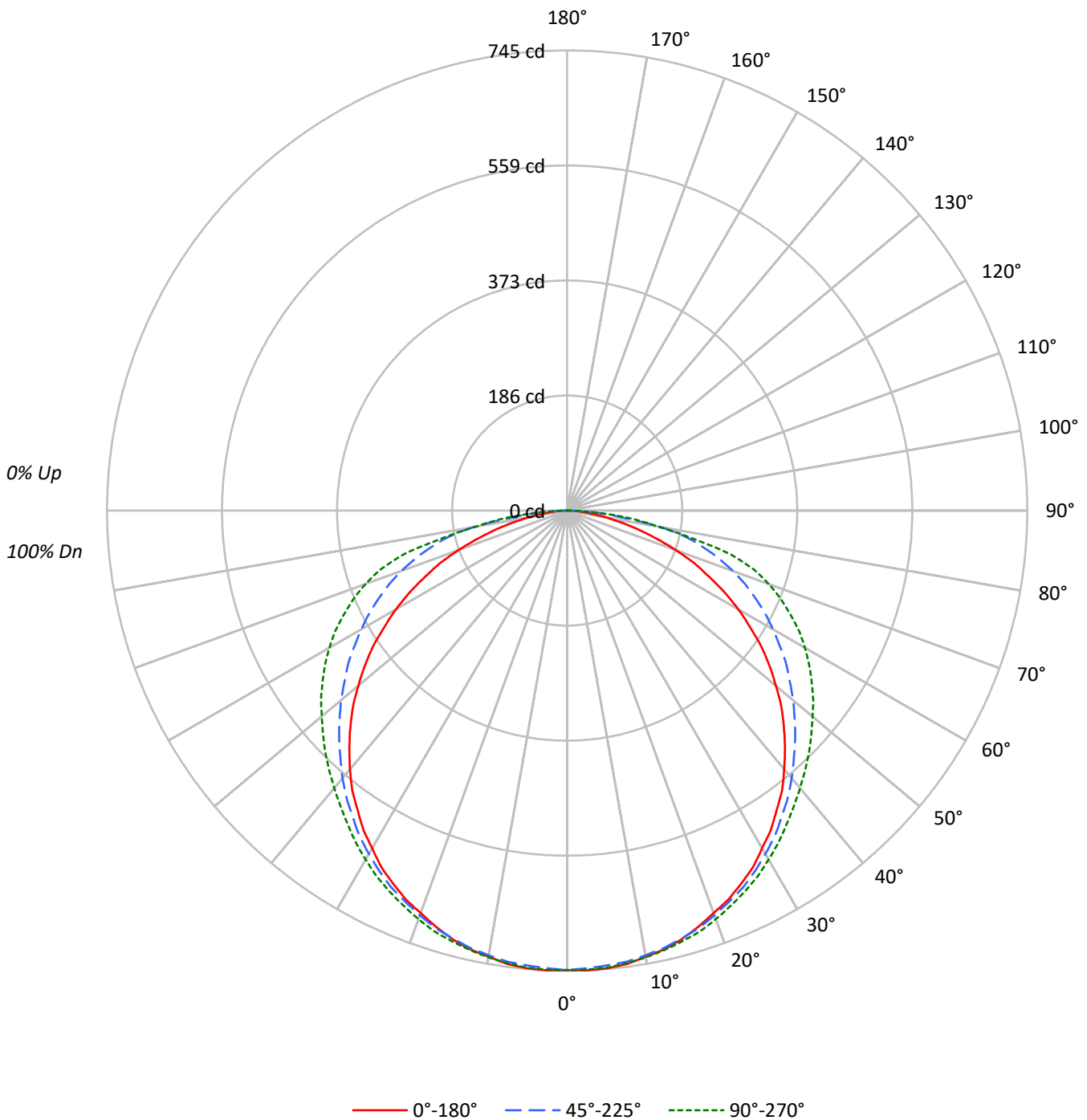
Input Watts (W): 27.156  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1001	1001	1001
5°	1005	998	1003
10°	1002	999	1004
15°	1000	999	1005
20°	993	998	1008
25°	989	1000	1010
30°	981	997	1014
35°	971	994	1018
40°	960	993	1030
45°	944	993	1054
50°	924	1000	1086
55°	900	1016	1134
60°	862	1036	1197
65°	807	1072	1270
70°	734	1122	1366
75°	622	1183	1428
80°	491	1191	1155
85°	363	906	1014



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.6	3.0
10°-20°	203.1	8.6
20°-30°	310.6	13.1
30°-40°	379.7	16.0
40°-50°	404.6	17.1
50°-60°	386.9	16.4
60°-70°	327.7	13.9
70°-80°	220.3	9.3
80°-90°	62.1	2.6
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°	584.2	24.7
0°-40°	963.9	40.7
0°-60°	1755.4	74.2
0°-90°	2365.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2365.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	744	743	739	743	743	71
15°	718	718	717	723	722	202
25°	666	669	674	679	680	307
35°	591	596	605	617	620	370
45°	496	504	522	544	554	383
55°	384	398	433	467	483	342
65°	253	279	337	381	399	252
75°	120	163	228	266	275	128
85°	24	48	59	63	66	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	743.9	743.9	743.9	743.9	743.9
2.5°	745.1	745.1	741.6	743.9	743.9
5°	743.9	742.7	739.2	742.7	742.7
7.5°	740.4	739.2	736.9	740.4	739.2
10°	733.3	733.3	731.0	734.5	734.5
12.5°	727.5	726.3	725.1	729.8	728.6
15°	718.1	718.1	716.9	722.8	721.6
17.5°	706.4	707.5	708.7	713.4	714.6
20°	693.4	695.8	697.0	704.0	704.0
22.5°	681.7	682.9	685.2	692.3	692.3
25°	666.5	668.8	673.5	679.4	680.5
27.5°	651.2	652.4	658.2	666.5	667.6
30°	631.3	634.8	641.8	651.2	652.4
32.5°	613.7	617.2	625.4	634.8	637.1
35°	591.4	596.1	605.4	617.2	619.5
37.5°	571.4	574.9	586.7	599.6	603.1
40°	546.8	553.8	565.6	580.8	586.7
42.5°	522.1	529.2	543.3	563.2	570.2
45°	496.3	504.5	522.1	544.4	553.8
47.5°	470.5	479.9	499.8	525.7	536.2
50°	441.2	452.9	477.6	506.9	518.6
52.5°	413.0	427.1	454.1	486.9	502.2
55°	383.7	397.8	433.0	467.0	483.4
57.5°	350.8	369.6	408.3	447.0	464.6
60°	320.3	337.9	384.9	427.1	444.7
62.5°	287.5	310.9	361.4	406.0	423.6
65°	253.4	279.3	336.7	381.3	398.9
67.5°	222.9	251.1	312.1	356.7	374.3
70°	186.6	221.8	285.1	329.7	347.3
72.5°	152.5	191.3	257.0	300.4	316.8
75°	119.7	163.1	227.6	266.3	274.6
77.5°	89.2	134.9	197.1	213.5	207.7
80°	63.4	107.9	153.7	145.5	149.0
82.5°	41.1	82.1	95.0	107.9	111.5
85°	23.5	48.1	58.7	63.4	65.7
87.5°	10.6	17.6	23.5	23.5	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)