

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: P275633

Luminaire Tested: **14CZ2-25-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-25-S-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2562.0 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

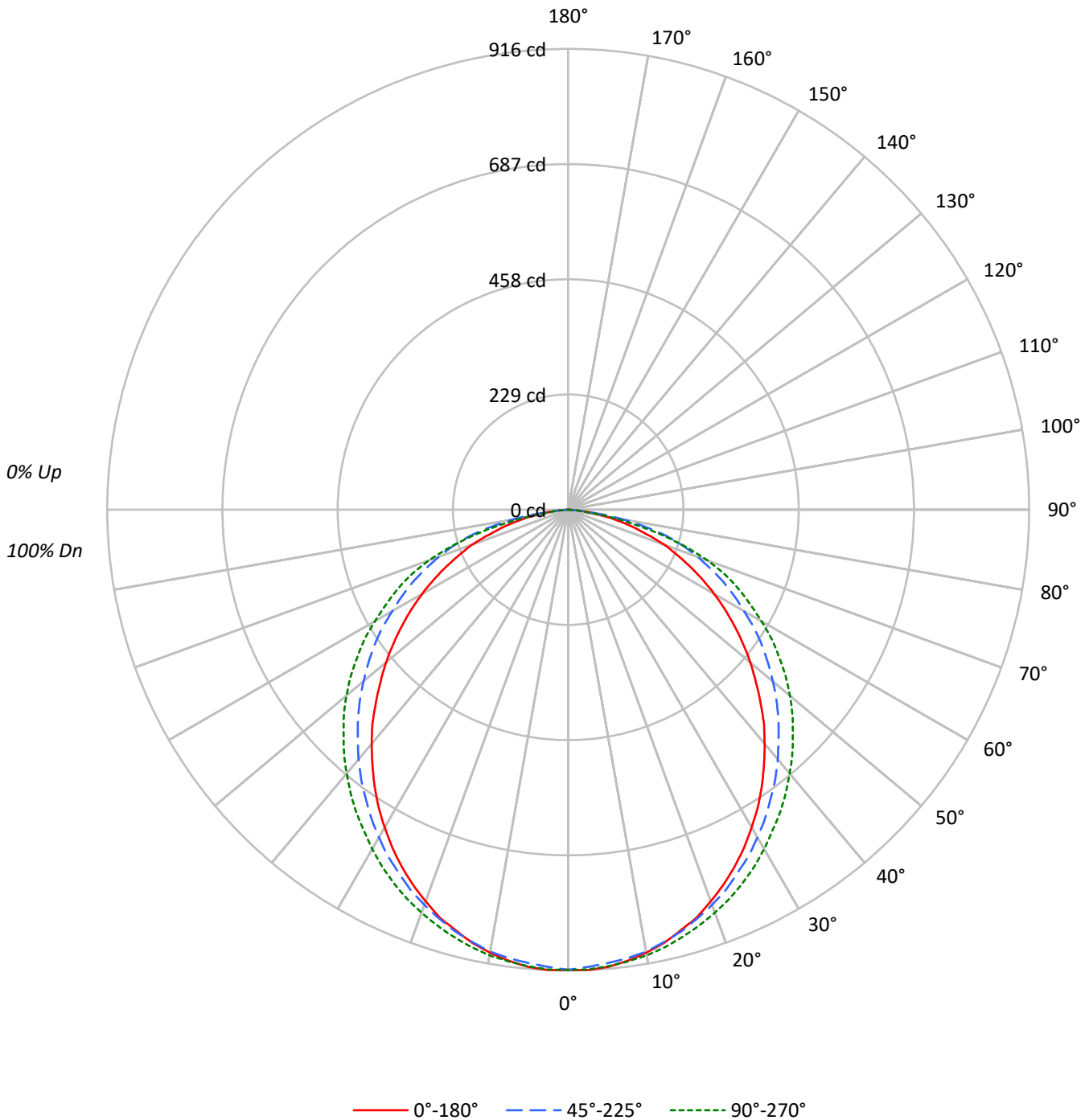
Input Watts (W): 19.065  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2461	2461	2461
5°	2464	2443	2460
10°	2444	2437	2457
15°	2410	2417	2449
20°	2372	2393	2441
25°	2323	2365	2433
30°	2266	2337	2420
35°	2203	2303	2412
40°	2133	2276	2405
45°	2055	2248	2402
50°	1978	2223	2409
55°	1895	2205	2402
60°	1805	2174	2386
65°	1699	2167	2386
70°	1599	2149	2319
75°	1387	2100	1981
80°	1122	1692	1319
85°	744	590	392



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.4	3.4
10°-20°	245.8	9.6
20°-30°	368.6	14.4
30°-40°	439.8	17.2
40°-50°	454.6	17.7
50°-60°	415.1	16.2
60°-70°	326.6	12.7
70°-80°	190.1	7.4
80°-90°	35.0	1.4
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°	700.8	27.4
0°-40°	1140.5	44.5
0°-60°	2010.2	78.5
0°-90°	2562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2562.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	912	910	904	912	911	86
15°	865	866	868	879	879	244
25°	782	786	796	816	819	360
35°	671	680	701	728	734	419
45°	540	558	591	624	631	417
55°	404	426	470	504	512	361
65°	267	295	340	367	375	265
75°	133	165	202	198	190	142
85°	24	34	19	15	13	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	914.6	914.6	914.6	914.6	914.6
2.5°	915.9	913.3	909.5	915.9	914.6
5°	912.1	909.5	904.4	912.1	910.8
7.5°	904.4	901.9	899.3	907.0	905.7
10°	894.3	893.0	891.7	900.6	899.3
12.5°	881.6	881.6	880.3	890.5	890.5
15°	865.1	866.3	867.6	879.0	879.0
17.5°	849.8	848.5	852.3	865.1	866.3
20°	828.2	830.8	835.8	851.1	852.3
22.5°	806.6	809.2	818.1	833.3	837.1
25°	782.5	786.3	796.5	815.5	819.3
27.5°	757.1	762.2	776.1	796.5	800.3
30°	729.1	736.8	752.0	774.9	778.7
32.5°	701.2	708.8	727.9	750.7	755.8
35°	670.7	679.6	701.2	727.9	734.2
37.5°	638.9	650.4	675.8	702.5	710.1
40°	607.2	619.9	647.8	675.8	684.7
42.5°	575.4	588.1	618.6	650.4	659.3
45°	539.9	557.6	590.7	623.7	631.3
47.5°	505.6	524.6	561.5	594.5	604.6
50°	472.5	491.6	531.0	565.3	575.4
52.5°	438.2	458.6	500.5	536.1	544.9
55°	403.9	425.5	470.0	504.3	511.9
57.5°	369.6	392.5	438.2	471.3	480.2
60°	335.4	359.5	403.9	437.0	443.3
62.5°	301.1	326.5	372.2	401.4	407.8
65°	266.8	294.7	340.4	367.1	374.7
67.5°	233.7	261.7	306.1	331.5	337.9
70°	203.2	228.6	273.1	292.2	294.7
72.5°	165.1	196.9	240.1	250.2	243.9
75°	133.4	165.1	202.0	198.2	190.5
77.5°	101.6	133.4	157.5	144.8	134.6
80°	72.4	104.2	109.2	90.2	85.1
82.5°	47.0	72.4	61.0	47.0	38.1
85°	24.1	34.3	19.1	15.2	12.7
87.5°	7.6	5.1	2.5	2.5	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)