

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: P259134

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259134  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-35-SQP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2377.0 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

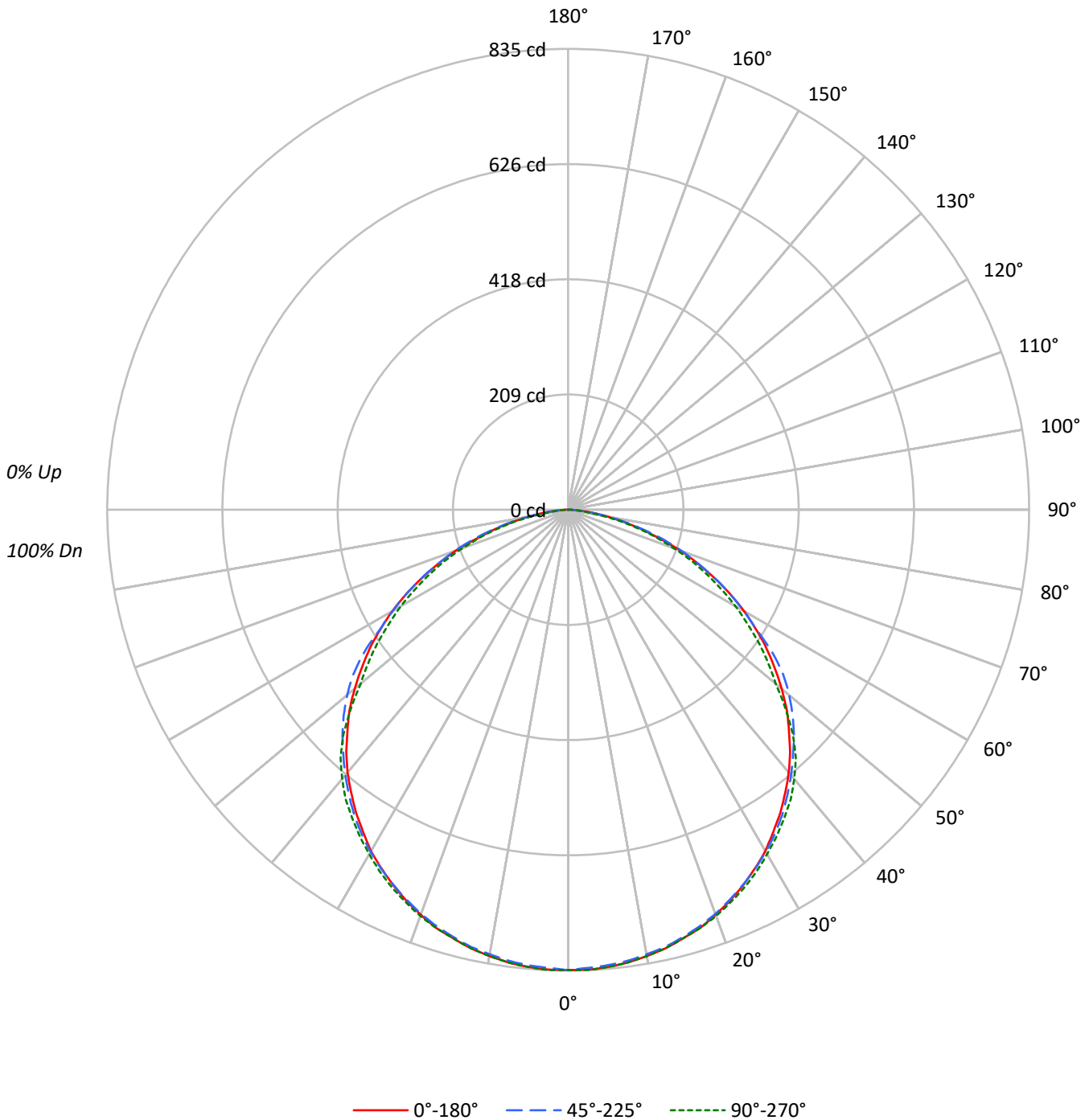
Input Watts (W): 28.179  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44					44			
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

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

	0°	45°	90°
0°	2245	2245	2245
5°	2247	2238	2247
10°	2244	2235	2244
15°	2241	2234	2241
20°	2237	2232	2243
25°	2228	2226	2242
30°	2219	2224	2239
35°	2201	2219	2240
40°	2184	2206	2237
45°	2151	2200	2191
50°	2113	2187	2056
55°	2059	2119	1979
60°	1981	1976	1885
65°	1856	1866	1764
70°	1704	1723	1596
75°	1432	1498	1364
80°	1136	1161	961
85°	747	645	546



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.0	3.3
10°-20°	227.0	9.6
20°-30°	346.7	14.6
30°-40°	423.0	17.8
40°-50°	442.3	18.6
50°-60°	391.6	16.5
60°-70°	288.4	12.1
70°-80°	149.3	6.3
80°-90°	29.8	1.3
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°	652.7	27.5
0°-40°	1075.7	45.3
0°-60°	1909.6	80.3
0°-90°	2377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	832	832	828	832	832	79
15°	804	804	802	805	804	227
25°	750	750	750	754	755	346
35°	670	672	676	682	682	419
45°	565	570	578	583	576	436
55°	439	448	452	428	422	391
65°	292	309	293	282	277	289
75°	138	147	144	135	131	147
85°	24	26	21	18	18	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	834.1	834.1	834.1	834.1	834.1
2.5°	834.1	834.1	830.9	834.1	834.9
5°	831.7	831.7	828.5	831.7	831.7
7.5°	827.7	826.9	824.5	827.7	827.7
10°	821.2	821.2	818.0	822.1	821.2
12.5°	814.0	813.2	811.6	814.8	814.0
15°	804.3	804.3	801.9	805.1	804.3
17.5°	794.7	793.9	791.5	794.7	794.7
20°	781.0	780.2	779.4	782.6	783.4
22.5°	766.5	765.7	764.9	769.7	769.7
25°	750.4	750.4	749.6	754.4	755.2
27.5°	732.7	732.7	733.5	739.9	739.1
30°	714.2	714.2	715.8	720.6	720.6
32.5°	691.6	693.2	696.5	702.1	702.1
35°	669.9	671.5	675.5	682.0	682.0
37.5°	645.7	648.1	652.2	660.2	661.8
40°	621.6	623.2	628.0	636.9	636.9
42.5°	595.0	596.6	603.1	611.9	610.3
45°	565.2	570.0	578.1	582.9	575.7
47.5°	537.0	540.3	551.5	545.9	533.8
50°	504.8	511.3	522.5	502.4	491.1
52.5°	471.8	479.1	491.1	463.0	456.5
55°	438.8	447.7	451.7	428.3	421.9
57.5°	403.4	413.0	405.0	391.3	384.9
60°	368.0	379.2	367.1	354.3	350.2
62.5°	330.9	343.8	330.1	318.8	313.2
65°	291.5	309.2	293.1	281.8	277.0
67.5°	252.8	271.3	254.4	244.8	241.5
70°	216.6	227.1	219.0	209.3	202.9
72.5°	173.1	183.6	182.0	171.5	167.5
75°	137.7	147.3	144.1	135.3	131.2
77.5°	102.3	112.7	109.5	99.0	97.4
80°	73.3	80.5	74.9	65.2	62.0
82.5°	45.9	51.5	44.3	37.0	35.4
85°	24.2	25.8	20.9	18.5	17.7
87.5°	8.1	8.9	8.9	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)