

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: P259137

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259137  
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-LD5-39-SQP-UNV-L82765-W2A1-U-3000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2376.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 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

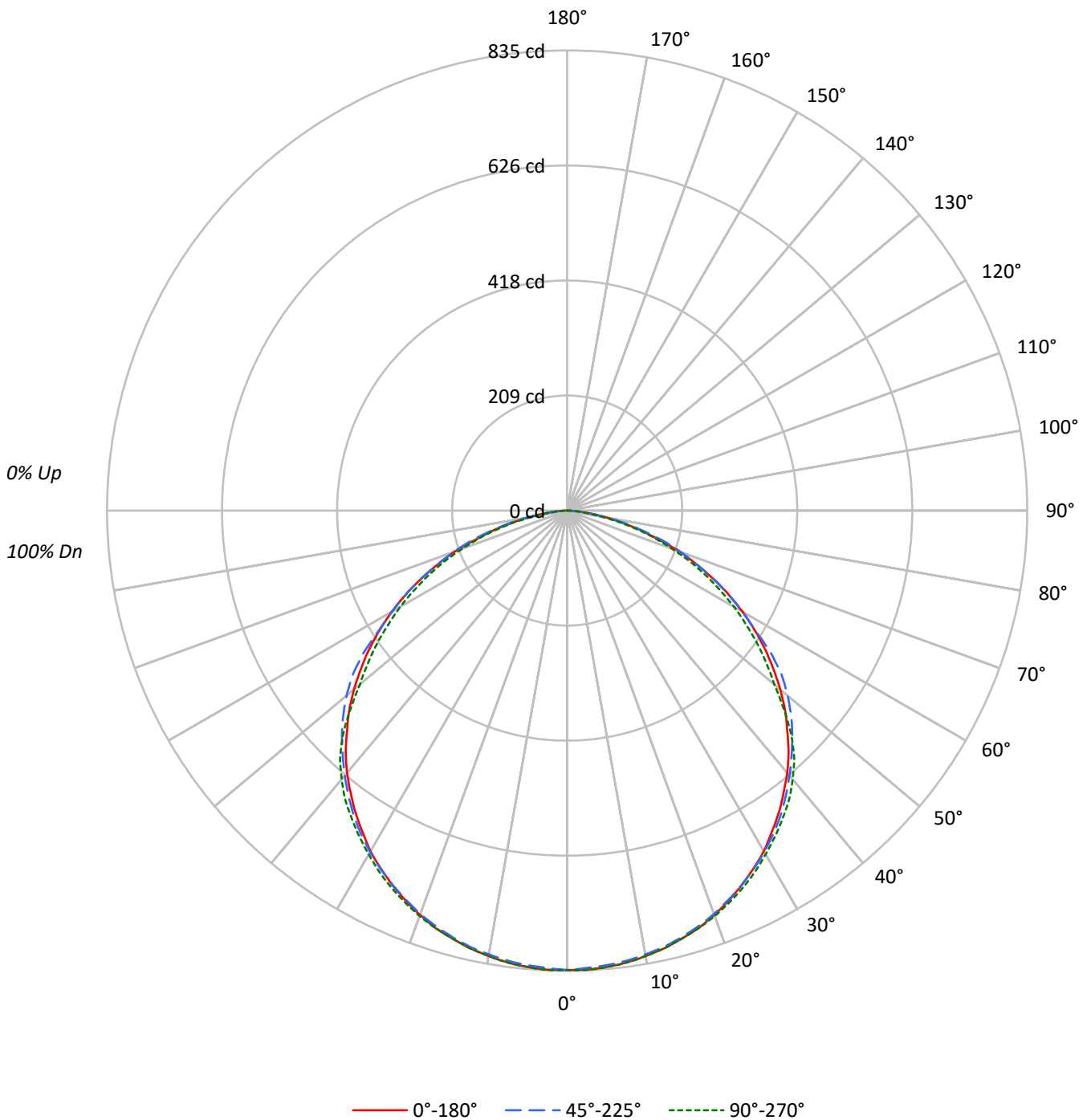
Input Watts (W): 30.783  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2244	2244	2244
5°	2246	2237	2246
10°	2243	2234	2243
15°	2240	2233	2240
20°	2236	2231	2243
25°	2227	2225	2241
30°	2218	2223	2238
35°	2200	2218	2239
40°	2183	2205	2236
45°	2150	2199	2190
50°	2112	2187	2055
55°	2058	2118	1978
60°	1979	1975	1884
65°	1855	1865	1763
70°	1703	1722	1596
75°	1431	1498	1364
80°	1134	1159	961
85°	744	645	546



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.0	3.3
10°-20°	226.9	9.6
20°-30°	346.5	14.6
30°-40°	422.8	17.8
40°-50°	442.1	18.6
50°-60°	391.4	16.5
60°-70°	288.2	12.1
70°-80°	149.2	6.3
80°-90°	29.7	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°	652.5	27.5
0°-40°	1075.3	45.3
0°-60°	1908.8	80.3
0°-90°	2376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2376.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	831	831	828	831	831	79
15°	804	804	802	805	804	227
25°	750	750	749	754	755	346
35°	670	671	675	682	682	419
45°	565	570	578	583	575	436
55°	439	448	452	428	422	391
65°	291	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°	833.8	833.8	833.8	833.8	833.8
2.5°	833.8	833.8	830.6	833.8	834.6
5°	831.4	831.4	828.1	831.4	831.4
7.5°	827.3	826.5	824.1	827.3	827.3
10°	820.9	820.9	817.7	821.7	820.9
12.5°	813.7	812.9	811.2	814.5	813.7
15°	804.0	804.0	801.6	804.8	804.0
17.5°	794.3	793.5	791.1	794.3	794.3
20°	780.7	779.9	779.1	782.3	783.1
22.5°	766.2	765.4	764.6	769.4	769.4
25°	750.1	750.1	749.3	754.1	754.9
27.5°	732.4	732.4	733.2	739.6	738.8
30°	713.9	713.9	715.5	720.3	720.3
32.5°	691.3	692.9	696.2	701.8	701.8
35°	669.6	671.2	675.2	681.7	681.7
37.5°	645.5	647.9	651.9	659.9	661.6
40°	621.3	622.9	627.7	636.6	636.6
42.5°	594.8	596.4	602.8	611.7	610.0
45°	565.0	569.8	577.9	582.7	575.4
47.5°	536.8	540.0	551.3	545.7	533.6
50°	504.6	511.1	522.3	502.2	490.9
52.5°	471.6	478.9	490.9	462.8	456.3
55°	438.6	447.5	451.5	428.2	421.7
57.5°	403.2	412.9	404.8	391.1	384.7
60°	367.8	379.1	367.0	354.1	350.1
62.5°	330.8	343.7	330.0	318.7	313.1
65°	291.3	309.0	292.9	281.7	276.9
67.5°	252.7	271.2	254.3	244.7	241.4
70°	216.5	227.0	218.9	209.2	202.8
72.5°	173.0	183.5	181.9	171.4	167.4
75°	137.6	147.3	144.1	135.2	131.2
77.5°	102.2	112.7	109.5	99.0	97.4
80°	73.2	80.5	74.8	65.2	62.0
82.5°	45.9	51.5	44.3	37.0	35.4
85°	24.1	25.8	20.9	18.5	17.7
87.5°	8.0	8.9	8.9	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)