

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: P259197

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259197
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-L92765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2373.0 lumens
Efficiency: N/A
Efficacy: 74.4 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

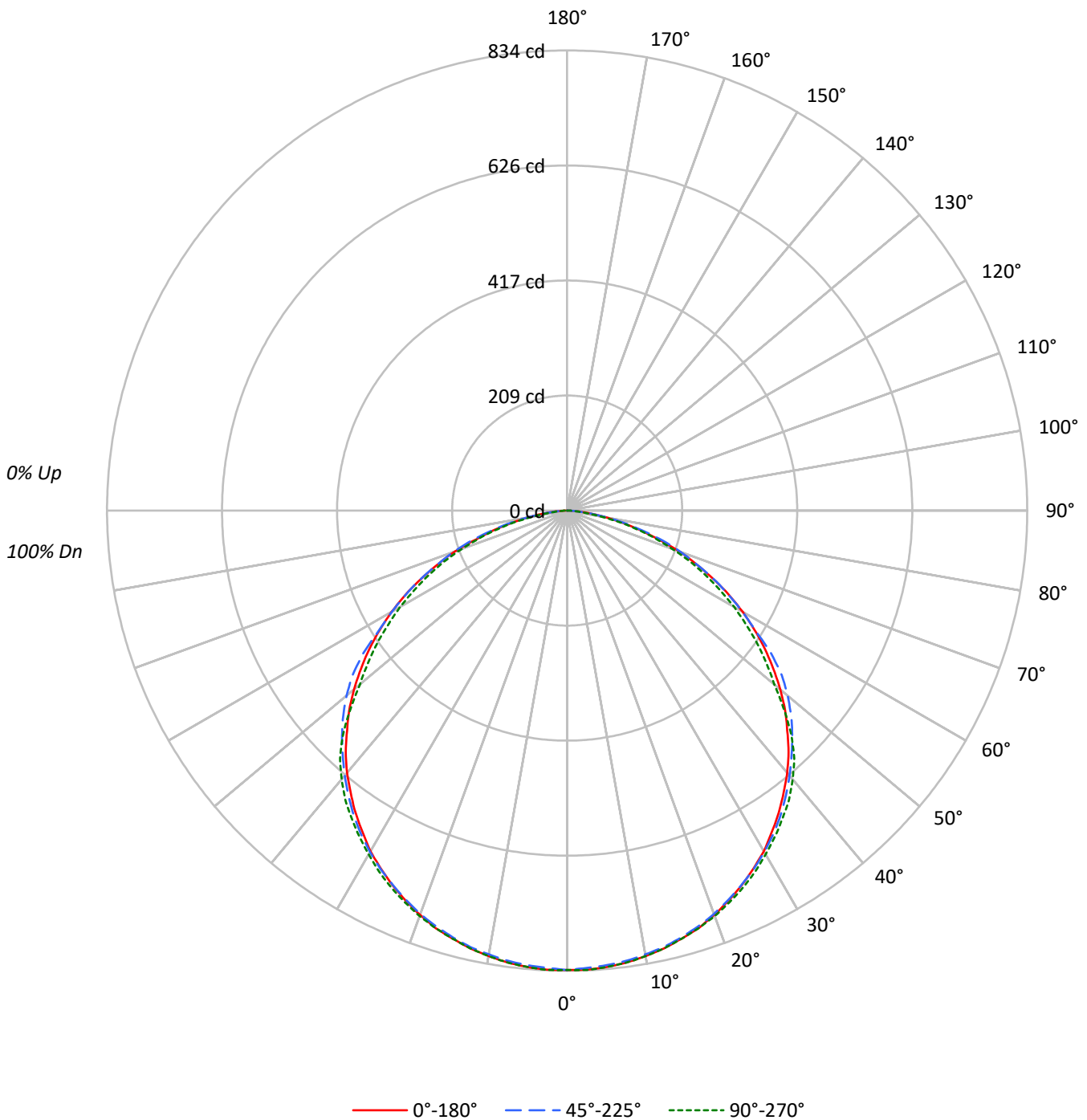
Input Watts (W): 31.899
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2241	2241	2241
5°	2243	2234	2243
10°	2240	2232	2240
15°	2237	2230	2237
20°	2233	2228	2240
25°	2224	2222	2239
30°	2215	2220	2235
35°	2197	2215	2236
40°	2180	2203	2233
45°	2148	2196	2187
50°	2110	2184	2053
55°	2055	2115	1976
60°	1977	1972	1882
65°	1853	1863	1761
70°	1701	1720	1594
75°	1429	1496	1362
80°	1133	1159	959
85°	744	645	546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	3.3
10°-20°	226.7	9.6
20°-30°	346.1	14.6
30°-40°	422.3	17.8
40°-50°	441.6	18.6
50°-60°	390.9	16.5
60°-70°	287.9	12.1
70°-80°	149.0	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°	651.6	27.5
0°-40°	1073.9	45.3
0°-60°	1906.4	80.3
0°-90°	2373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	830	830	827	830	830	79
15°	803	803	801	804	803	227
25°	749	749	748	753	754	345
35°	669	670	674	681	681	418
45°	564	569	577	582	575	436
55°	438	447	451	428	421	391
65°	291	309	293	281	276	288
75°	137	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°	832.7	832.7	832.7	832.7	832.7
2.5°	832.7	832.7	829.5	832.7	833.5
5°	830.3	830.3	827.1	830.3	830.3
7.5°	826.3	825.5	823.1	826.3	826.3
10°	819.9	819.9	816.7	820.7	819.9
12.5°	812.6	811.8	810.2	813.4	812.6
15°	803.0	803.0	800.6	803.8	803.0
17.5°	793.3	792.5	790.1	793.3	793.3
20°	779.7	778.9	778.1	781.3	782.1
22.5°	765.2	764.4	763.6	768.4	768.4
25°	749.1	749.1	748.3	753.2	754.0
27.5°	731.4	731.4	732.3	738.7	737.9
30°	713.0	713.0	714.6	719.4	719.4
32.5°	690.5	692.1	695.3	700.9	700.9
35°	668.8	670.4	674.4	680.8	680.8
37.5°	644.6	647.1	651.1	659.1	660.7
40°	620.5	622.1	627.0	635.8	635.8
42.5°	594.0	595.6	602.0	610.9	609.3
45°	564.3	569.1	577.1	581.9	574.7
47.5°	536.1	539.3	550.6	545.0	532.9
50°	504.0	510.4	521.7	501.6	490.3
52.5°	471.0	478.3	490.3	462.2	455.7
55°	438.1	446.9	450.9	427.6	421.2
57.5°	402.7	412.3	404.3	390.6	384.2
60°	367.3	378.6	366.5	353.7	349.6
62.5°	330.4	343.2	329.6	318.3	312.7
65°	291.0	308.7	292.6	281.3	276.5
67.5°	252.4	270.9	254.0	244.4	241.1
70°	216.2	226.7	218.6	209.0	202.6
72.5°	172.8	183.3	181.7	171.2	167.2
75°	137.4	147.1	143.9	135.0	131.0
77.5°	102.1	112.5	109.3	98.9	97.3
80°	73.1	80.4	74.8	65.1	61.9
82.5°	45.8	51.4	44.2	37.0	35.4
85°	24.1	25.7	20.9	18.5	17.7
87.5°	8.0	8.8	8.8	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)