

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: P259193

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259193
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-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2222.0 lumens
Efficiency: N/A
Efficacy: 70.9 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

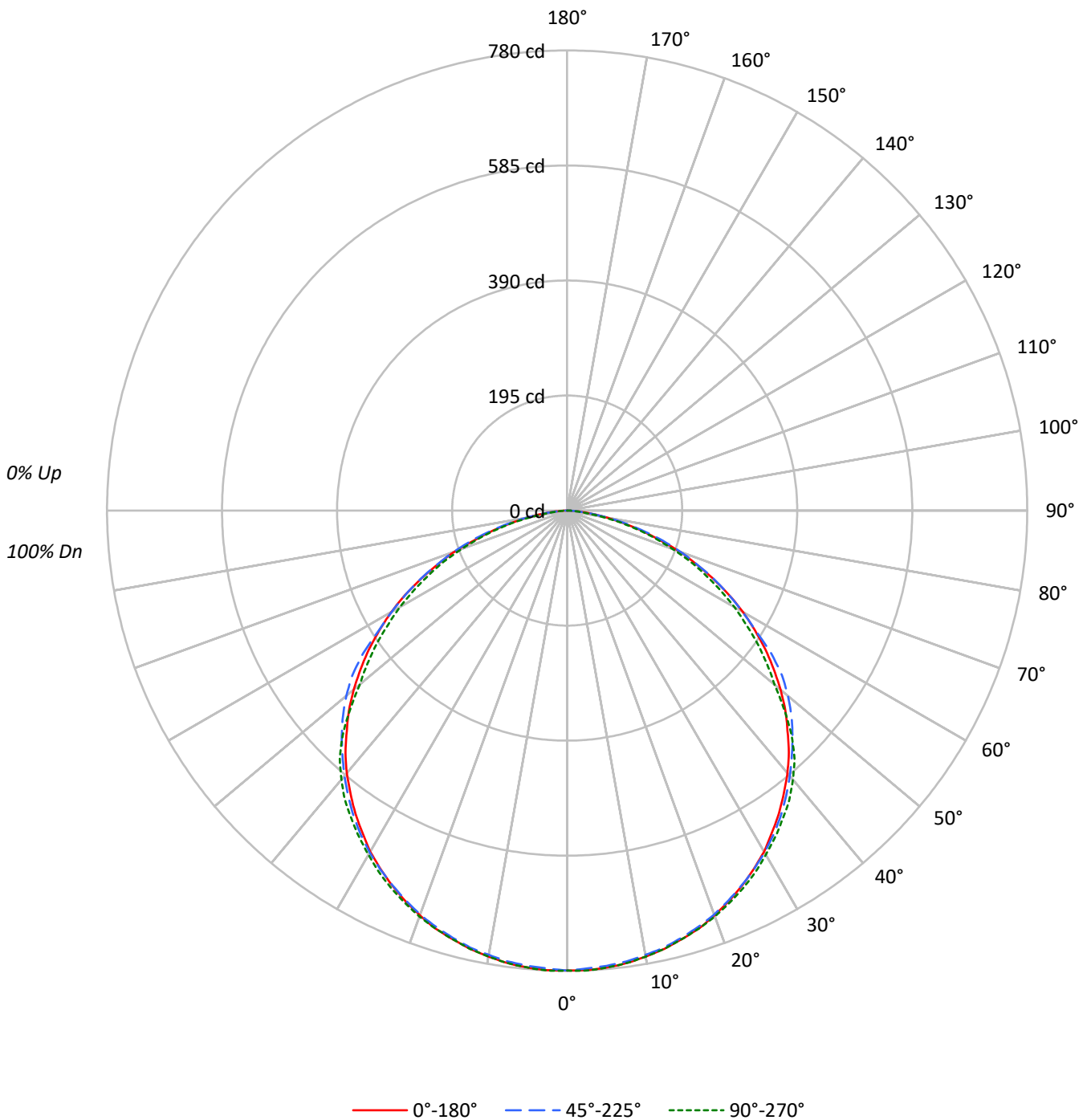
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2098	2098	2098
5°	2100	2092	2100
10°	2098	2090	2098
15°	2095	2088	2095
20°	2091	2086	2097
25°	2083	2080	2096
30°	2074	2079	2093
35°	2057	2075	2094
40°	2041	2062	2091
45°	2011	2057	2048
50°	1976	2045	1922
55°	1924	1981	1850
60°	1851	1847	1762
65°	1735	1745	1649
70°	1593	1611	1493
75°	1338	1400	1276
80°	1062	1085	899
85°	698	605	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.3
10°-20°	212.2	9.6
20°-30°	324.1	14.6
30°-40°	395.4	17.8
40°-50°	413.5	18.6
50°-60°	366.1	16.5
60°-70°	269.6	12.1
70°-80°	139.6	6.3
80°-90°	27.8	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°	610.2	27.5
0°-40°	1005.6	45.3
0°-60°	1785.1	80.3
0°-90°	2222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	778	778	774	778	778	74
15°	752	752	750	753	752	212
25°	702	702	701	705	706	323
35°	626	628	632	638	638	392
45°	528	533	540	545	538	408
55°	410	418	422	400	394	366
65°	272	289	274	263	259	270
75°	129	138	135	126	123	137
85°	23	24	20	17	17	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.7	779.7	779.7	779.7	779.7
2.5°	779.7	779.7	776.7	779.7	780.5
5°	777.5	777.5	774.5	777.5	777.5
7.5°	773.7	773.0	770.7	773.7	773.7
10°	767.7	767.7	764.7	768.4	767.7
12.5°	760.9	760.2	758.7	761.7	760.9
15°	751.9	751.9	749.6	752.6	751.9
17.5°	742.9	742.1	739.8	742.9	742.9
20°	730.1	729.3	728.6	731.6	732.3
22.5°	716.5	715.8	715.0	719.5	719.5
25°	701.5	701.5	700.7	705.2	706.0
27.5°	684.9	684.9	685.7	691.7	690.9
30°	667.6	667.6	669.1	673.6	673.6
32.5°	646.5	648.0	651.0	656.3	656.3
35°	626.2	627.7	631.5	637.5	637.5
37.5°	603.6	605.9	609.6	617.2	618.7
40°	581.0	582.5	587.1	595.3	595.3
42.5°	556.2	557.7	563.7	572.0	570.5
45°	528.4	532.9	540.4	544.9	538.1
47.5°	502.0	505.0	515.6	510.3	499.0
50°	471.9	477.9	488.5	469.6	459.1
52.5°	441.0	447.8	459.1	432.8	426.7
55°	410.2	418.5	422.2	400.4	394.4
57.5°	377.1	386.1	378.6	365.8	359.8
60°	344.0	354.5	343.2	331.2	327.4
62.5°	309.3	321.4	308.6	298.0	292.8
65°	272.5	289.0	274.0	263.4	258.9
67.5°	236.3	253.6	237.8	228.8	225.8
70°	202.5	212.2	204.7	195.7	189.7
72.5°	161.8	171.6	170.1	160.3	156.5
75°	128.7	137.7	134.7	126.4	122.7
77.5°	95.6	105.4	102.4	92.6	91.1
80°	68.5	75.3	70.0	61.0	58.0
82.5°	42.9	48.2	41.4	34.6	33.1
85°	22.6	24.1	19.6	17.3	16.6
87.5°	7.5	8.3	8.3	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)