

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: P259132

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259132
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-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2348.0 lumens
Efficiency: N/A
Efficacy: 83.6 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

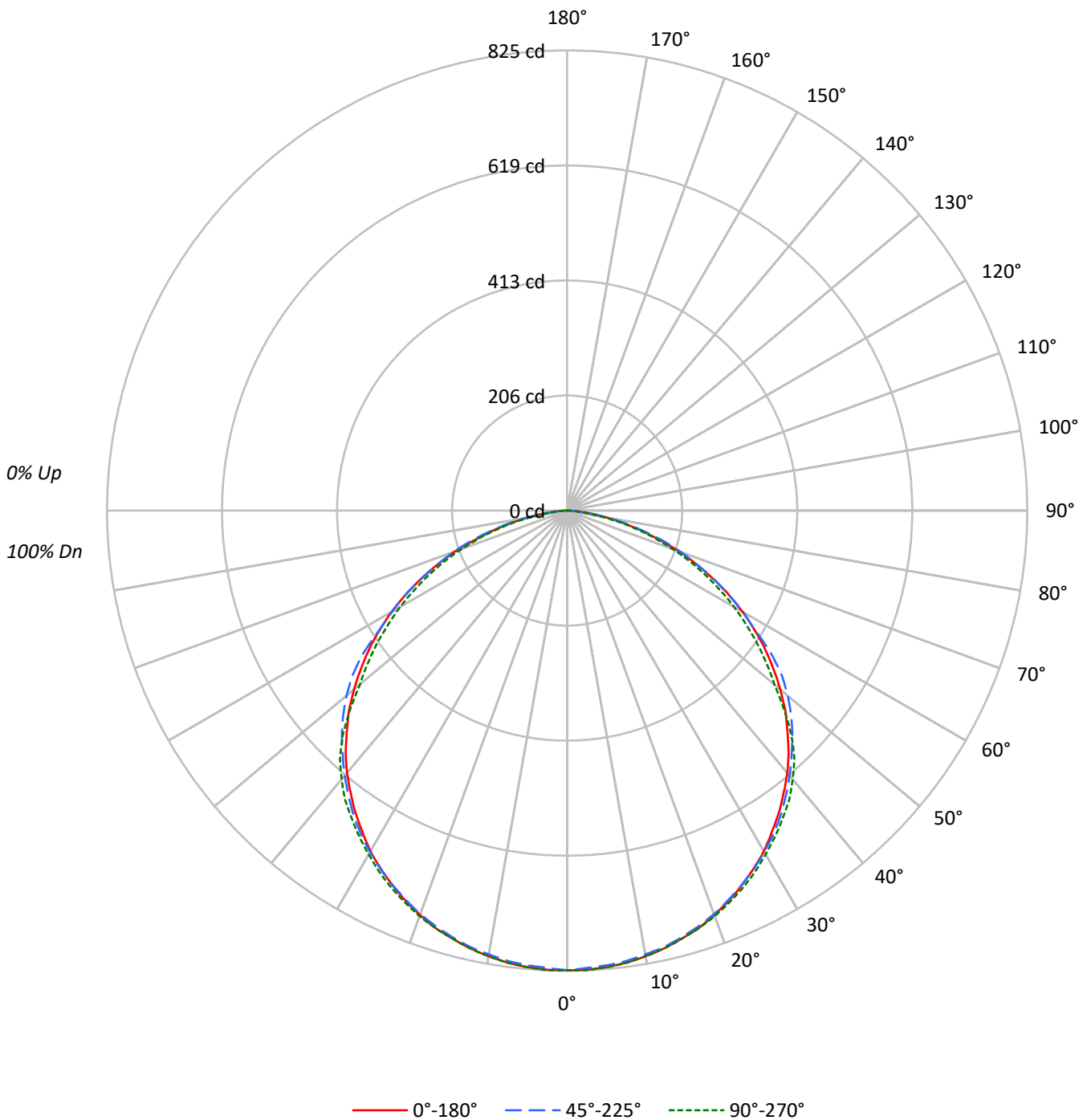
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2217	2217	2217
5°	2219	2211	2219
10°	2217	2208	2217
15°	2213	2207	2213
20°	2209	2205	2216
25°	2201	2198	2215
30°	2192	2197	2212
35°	2174	2192	2213
40°	2157	2179	2210
45°	2125	2173	2164
50°	2088	2161	2031
55°	2034	2093	1955
60°	1956	1952	1862
65°	1833	1843	1742
70°	1683	1702	1577
75°	1414	1481	1347
80°	1122	1147	948
85°	738	639	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.3
10°-20°	224.3	9.6
20°-30°	342.4	14.6
30°-40°	417.8	17.8
40°-50°	436.9	18.6
50°-60°	386.8	16.5
60°-70°	284.8	12.1
70°-80°	147.5	6.3
80°-90°	29.4	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°	644.8	27.5
0°-40°	1062.6	45.3
0°-60°	1886.3	80.3
0°-90°	2348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	822	822	818	822	822	78
15°	794	794	792	795	794	224
25°	741	741	740	745	746	342
35°	662	663	667	674	674	414
45°	558	563	571	576	569	431
55°	434	442	446	423	417	387
65°	288	305	290	278	274	285
75°	136	146	142	134	130	145
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°	824.0	824.0	824.0	824.0	824.0
2.5°	824.0	824.0	820.8	824.0	824.7
5°	821.6	821.6	818.4	821.6	821.6
7.5°	817.6	816.8	814.4	817.6	817.6
10°	811.2	811.2	808.0	812.0	811.2
12.5°	804.1	803.3	801.7	804.9	804.1
15°	794.5	794.5	792.1	795.3	794.5
17.5°	785.0	784.2	781.8	785.0	785.0
20°	771.5	770.7	769.9	773.1	773.8
22.5°	757.1	756.4	755.6	760.3	760.3
25°	741.2	741.2	740.4	745.2	746.0
27.5°	723.7	723.7	724.5	730.9	730.1
30°	705.5	705.5	707.0	711.8	711.8
32.5°	683.2	684.8	688.0	693.5	693.5
35°	661.7	663.3	667.3	673.6	673.6
37.5°	637.8	640.2	644.2	652.2	653.8
40°	614.0	615.6	620.4	629.1	629.1
42.5°	587.7	589.3	595.7	604.4	602.9
45°	558.3	563.1	571.0	575.8	568.7
47.5°	530.5	533.7	544.8	539.2	527.3
50°	498.7	505.0	516.2	496.3	485.1
52.5°	466.1	473.2	485.1	457.3	450.9
55°	433.5	442.2	446.2	423.1	416.7
57.5°	398.5	408.0	400.0	386.5	380.2
60°	363.5	374.6	362.7	349.9	346.0
62.5°	326.9	339.6	326.1	314.9	309.4
65°	287.9	305.4	289.5	278.4	273.6
67.5°	249.7	268.0	251.3	241.8	238.6
70°	213.9	224.3	216.3	206.8	200.4
72.5°	171.0	181.3	179.7	169.4	165.4
75°	136.0	145.5	142.4	133.6	129.6
77.5°	101.0	111.3	108.2	97.8	96.2
80°	72.4	79.5	74.0	64.4	61.2
82.5°	45.3	50.9	43.7	36.6	35.0
85°	23.9	25.5	20.7	18.3	17.5
87.5°	8.0	8.7	8.7	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)