

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: P259135

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259135
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-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2384.0 lumens
Efficiency: N/A
Efficacy: 83.2 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

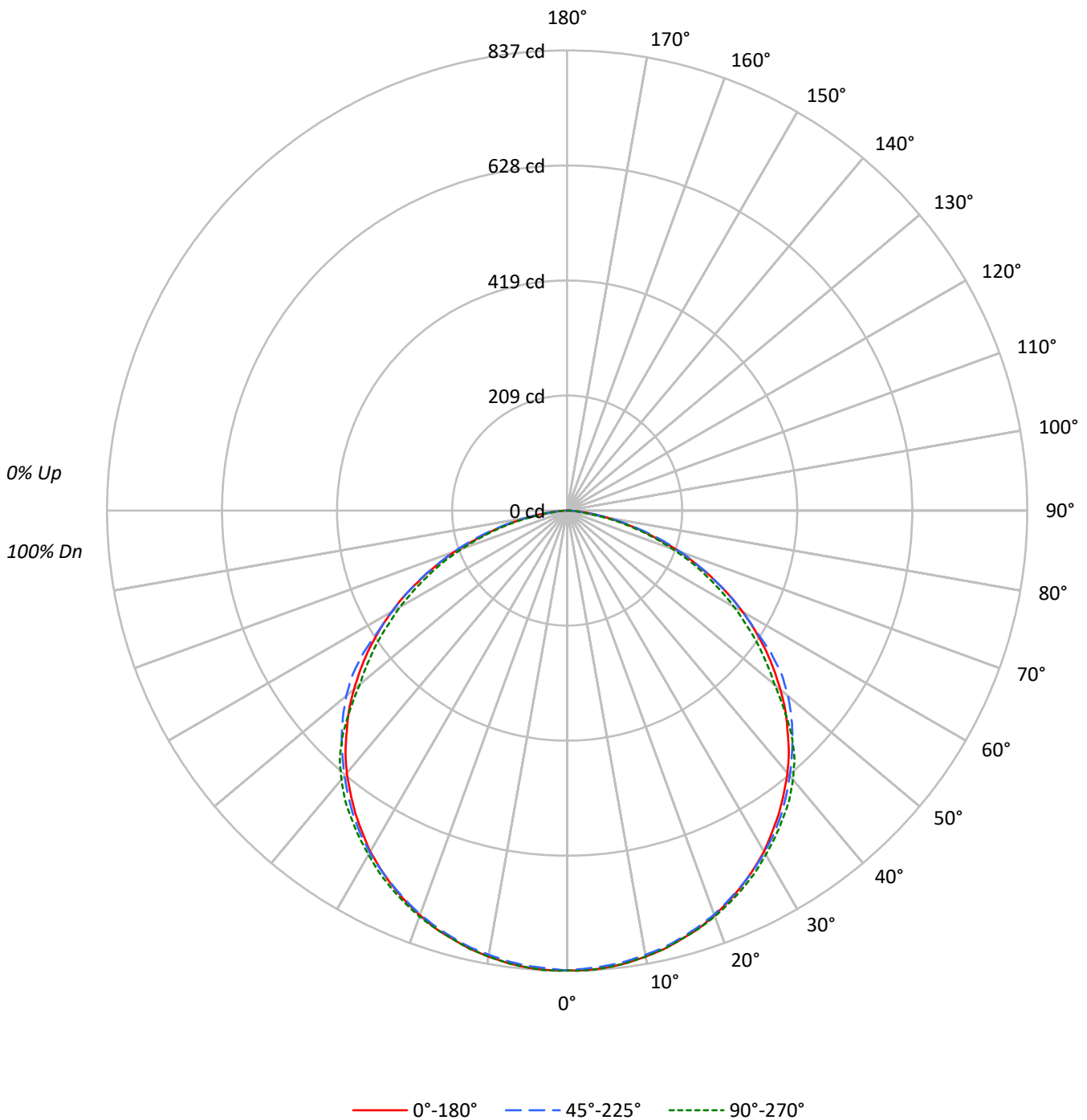
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2251	2251	2251
5°	2253	2244	2253
10°	2251	2242	2251
15°	2247	2241	2247
20°	2243	2239	2250
25°	2235	2232	2249
30°	2226	2231	2246
35°	2207	2226	2247
40°	2190	2213	2244
45°	2157	2206	2197
50°	2120	2194	2062
55°	2065	2125	1985
60°	1986	1982	1891
65°	1861	1871	1769
70°	1709	1728	1601
75°	1436	1502	1368
80°	1139	1164	964
85°	747	648	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	3.3
10°-20°	227.7	9.6
20°-30°	347.7	14.6
30°-40°	424.2	17.8
40°-50°	443.6	18.6
50°-60°	392.8	16.5
60°-70°	289.2	12.1
70°-80°	149.7	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°	654.6	27.5
0°-40°	1078.9	45.3
0°-60°	1915.2	80.3
0°-90°	2384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	834	834	831	834	834	79
15°	807	807	804	808	807	228
25°	753	753	752	757	758	347
35°	672	674	678	684	684	420
45°	567	572	580	585	577	438
55°	440	449	453	430	423	393
65°	292	310	294	283	278	290
75°	138	148	144	136	132	147
85°	24	26	21	19	18	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.6	836.6	836.6	836.6	836.6
2.5°	836.6	836.6	833.4	836.6	837.4
5°	834.2	834.2	830.9	834.2	834.2
7.5°	830.1	829.3	826.9	830.1	830.1
10°	823.7	823.7	820.4	824.5	823.7
12.5°	816.4	815.6	814.0	817.2	816.4
15°	806.7	806.7	804.3	807.5	806.7
17.5°	797.0	796.2	793.8	797.0	797.0
20°	783.3	782.5	781.7	784.9	785.7
22.5°	768.8	767.9	767.1	772.0	772.0
25°	752.6	752.6	751.8	756.6	757.5
27.5°	734.8	734.8	735.6	742.1	741.3
30°	716.3	716.3	717.9	722.7	722.7
32.5°	693.7	695.3	698.5	704.2	704.2
35°	671.9	673.5	677.5	684.0	684.0
37.5°	647.6	650.1	654.1	662.2	663.8
40°	623.4	625.0	629.9	638.7	638.7
42.5°	596.8	598.4	604.8	613.7	612.1
45°	566.9	571.7	579.8	584.6	577.4
47.5°	538.6	541.8	553.1	547.5	535.4
50°	506.3	512.8	524.1	503.9	492.6
52.5°	473.2	480.5	492.6	464.3	457.9
55°	440.1	449.0	453.0	429.6	423.1
57.5°	404.6	414.3	406.2	392.5	386.0
60°	369.0	380.3	368.2	355.3	351.3
62.5°	331.9	344.8	331.1	319.8	314.1
65°	292.3	310.1	293.9	282.6	277.8
67.5°	253.6	272.1	255.2	245.5	242.3
70°	217.2	227.7	219.6	210.0	203.5
72.5°	173.6	184.1	182.5	172.0	168.0
75°	138.1	147.8	144.5	135.7	131.6
77.5°	102.6	113.1	109.8	99.3	97.7
80°	73.5	80.8	75.1	65.4	62.2
82.5°	46.0	51.7	44.4	37.1	35.5
85°	24.2	25.8	21.0	18.6	17.8
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)