

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: P258963

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2408.0 lumens
Efficiency: N/A
Efficacy: 86.0 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

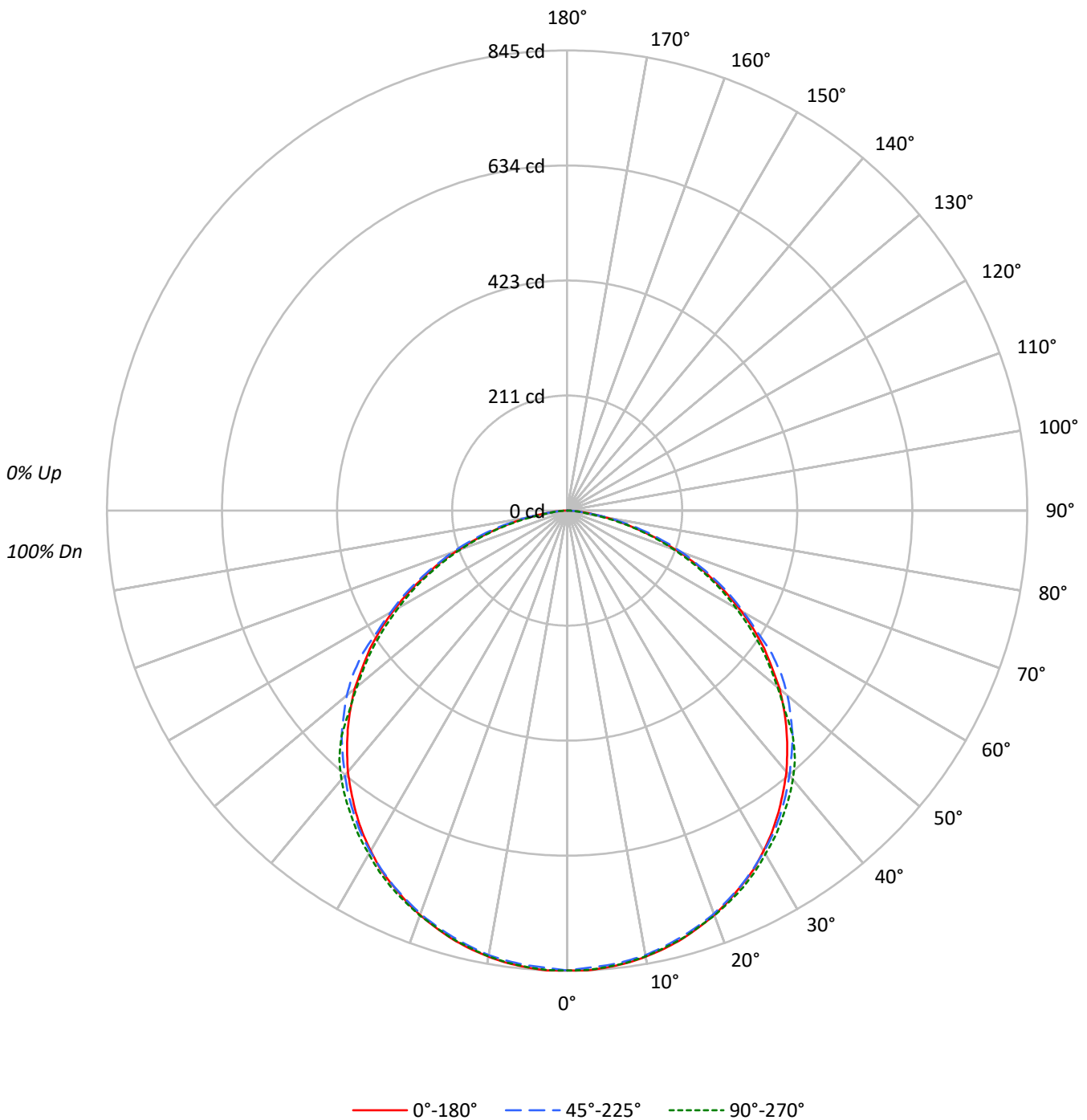
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	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	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2273	2273	2273
5°	2275	2264	2273
10°	2273	2265	2271
15°	2270	2259	2267
20°	2263	2257	2265
25°	2253	2251	2268
30°	2241	2246	2263
35°	2222	2240	2264
40°	2200	2230	2266
45°	2168	2228	2231
50°	2133	2211	2110
55°	2073	2154	2032
60°	1985	2015	1926
65°	1859	1909	1809
70°	1692	1760	1637
75°	1412	1542	1387
80°	1119	1179	961
85°	726	630	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	3.3
10°-20°	229.6	9.5
20°-30°	350.5	14.6
30°-40°	427.4	17.7
40°-50°	447.5	18.6
50°-60°	398.1	16.5
60°-70°	293.7	12.2
70°-80°	151.8	6.3
80°-90°	29.5	1.2
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°	660.1	27.4
0°-40°	1087.5	45.2
0°-60°	1933.0	80.3
0°-90°	2408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	842	841	838	841	841	80
15°	815	814	811	814	814	230
25°	759	759	758	764	764	350
35°	676	677	682	690	689	423
45°	570	574	586	591	586	439
55°	442	451	459	440	433	394
65°	292	312	300	290	284	289
75°	136	150	148	137	133	147
85°	24	26	20	19	18	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	844.5	844.5	844.5	844.5	844.5
2.5°	845.3	844.5	840.6	844.5	844.5
5°	842.1	841.4	838.2	841.4	841.4
7.5°	838.2	837.4	834.3	837.4	837.4
10°	831.9	831.2	828.8	831.9	831.2
12.5°	824.1	824.1	820.2	824.1	822.5
15°	814.7	813.9	810.7	813.9	813.9
17.5°	802.9	802.1	799.8	803.7	802.1
20°	790.3	789.6	788.0	791.9	791.1
22.5°	775.4	775.4	773.1	777.8	777.8
25°	758.9	758.9	758.2	763.7	763.7
27.5°	742.5	740.9	740.9	746.4	747.2
30°	721.3	721.3	722.8	729.1	728.3
32.5°	700.1	700.9	704.0	709.5	710.3
35°	676.5	677.3	682.0	689.9	689.1
37.5°	651.4	653.8	659.3	667.9	667.9
40°	626.3	627.9	634.9	644.4	645.1
42.5°	598.1	602.0	609.8	620.8	619.2
45°	569.8	573.7	585.5	591.0	586.3
47.5°	540.0	544.7	556.5	557.2	541.5
50°	509.4	514.9	528.2	512.5	503.9
52.5°	474.0	484.3	496.0	474.0	468.6
55°	441.9	451.3	459.1	439.5	433.2
57.5°	405.8	418.3	412.8	403.4	395.6
60°	368.9	382.2	374.4	365.0	357.9
62.5°	331.2	346.1	338.3	328.9	322.6
65°	292.0	312.4	299.8	289.6	284.1
67.5°	255.1	274.7	259.8	251.9	246.4
70°	215.0	231.5	223.7	213.5	208.0
72.5°	175.8	188.4	186.0	175.0	171.1
75°	135.8	149.9	148.3	136.6	133.4
77.5°	102.0	115.4	110.7	101.2	97.3
80°	72.2	80.8	76.1	65.1	62.0
82.5°	44.0	51.0	43.2	36.9	33.7
85°	23.5	25.9	20.4	18.8	18.1
87.5°	8.6	8.6	8.6	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)