

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: P259021

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259021
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-L92765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2250.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

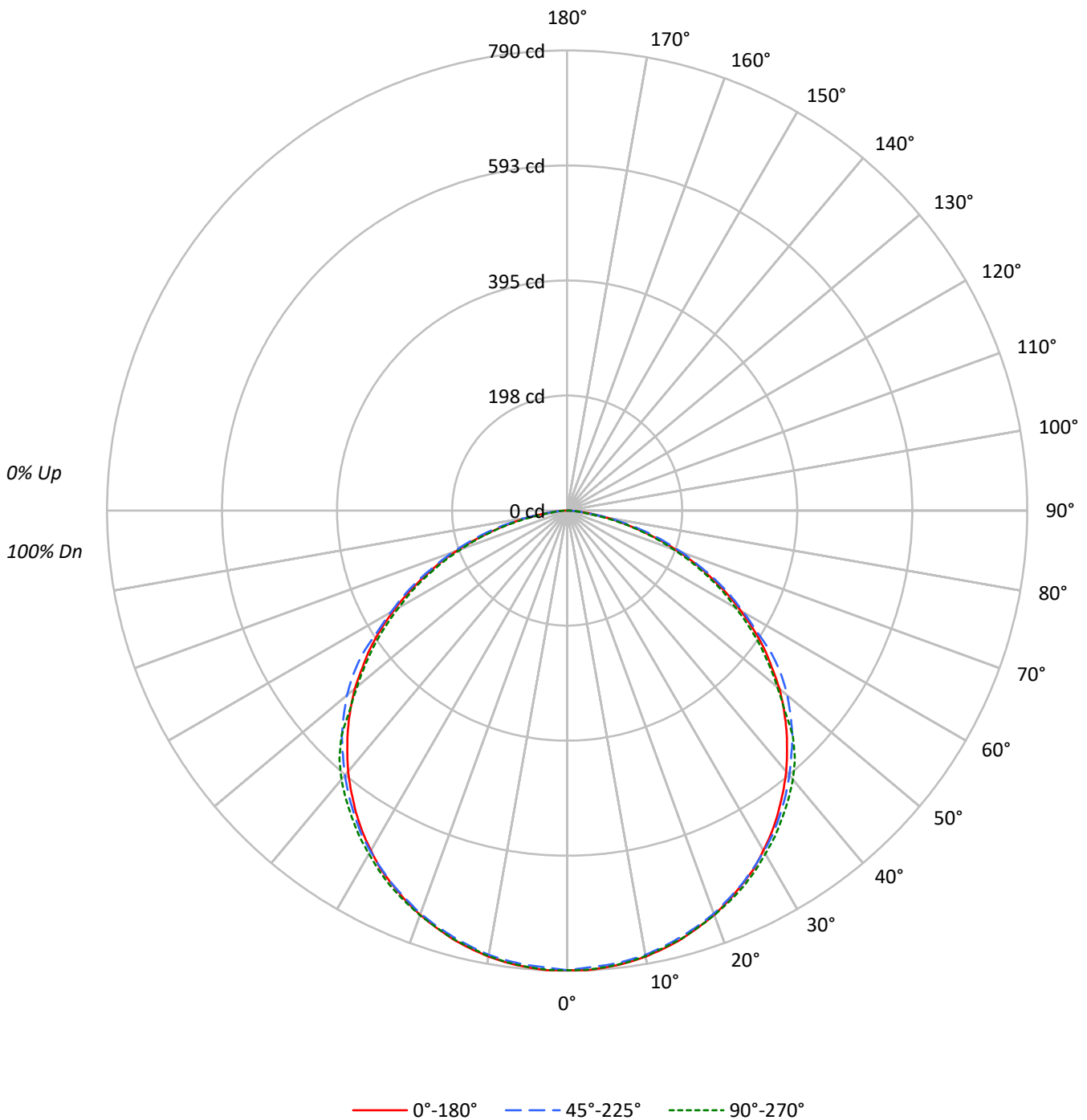
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2123	2123	2123
5°	2126	2116	2124
10°	2124	2116	2122
15°	2121	2110	2119
20°	2115	2109	2117
25°	2105	2103	2119
30°	2094	2099	2115
35°	2076	2094	2115
40°	2056	2084	2118
45°	2026	2082	2085
50°	1992	2066	1971
55°	1937	2013	1899
60°	1855	1883	1800
65°	1737	1784	1691
70°	1581	1644	1529
75°	1319	1441	1297
80°	1046	1102	897
85°	679	590	522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	3.3
10°-20°	214.6	9.5
20°-30°	327.5	14.6
30°-40°	399.3	17.7
40°-50°	418.1	18.6
50°-60°	372.0	16.5
60°-70°	274.4	12.2
70°-80°	141.8	6.3
80°-90°	27.6	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°	616.8	27.4
0°-40°	1016.1	45.2
0°-60°	1806.2	80.3
0°-90°	2250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	787	786	783	786	786	75
15°	761	760	758	760	760	215
25°	709	709	708	714	714	327
35°	632	633	637	645	644	395
45°	532	536	547	552	548	411
55°	413	422	429	411	405	368
65°	273	292	280	271	266	270
75°	127	140	139	128	125	137
85°	22	24	19	18	17	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	789.1	789.1	789.1	789.1	789.1
2.5°	789.8	789.1	785.4	789.1	789.1
5°	786.9	786.2	783.2	786.2	786.2
7.5°	783.2	782.5	779.6	782.5	782.5
10°	777.4	776.6	774.4	777.4	776.6
12.5°	770.0	770.0	766.3	770.0	768.5
15°	761.2	760.5	757.5	760.5	760.5
17.5°	750.2	749.5	747.3	750.9	749.5
20°	738.5	737.7	736.3	739.9	739.2
22.5°	724.5	724.5	722.3	726.7	726.7
25°	709.1	709.1	708.4	713.5	713.5
27.5°	693.7	692.3	692.3	697.4	698.1
30°	673.9	673.9	675.4	681.3	680.5
32.5°	654.1	654.9	657.8	662.9	663.7
35°	632.1	632.9	637.3	644.6	643.9
37.5°	608.7	610.9	616.0	624.1	624.1
40°	585.2	586.7	593.3	602.1	602.8
42.5°	558.8	562.5	569.8	580.1	578.6
45°	532.4	536.1	547.1	552.2	547.8
47.5°	504.5	508.9	519.9	520.7	506.0
50°	475.9	481.1	493.5	478.9	470.8
52.5°	442.9	452.5	463.5	442.9	437.8
55°	412.9	421.7	429.0	410.7	404.8
57.5°	379.1	390.9	385.7	376.9	369.6
60°	344.7	357.1	349.8	341.0	334.4
62.5°	309.5	323.4	316.1	307.3	301.4
65°	272.8	291.9	280.1	270.6	265.5
67.5°	238.3	256.7	242.7	235.4	230.3
70°	200.9	216.3	209.0	199.5	194.3
72.5°	164.3	176.0	173.8	163.5	159.9
75°	126.9	140.1	138.6	127.6	124.7
77.5°	95.3	107.8	103.4	94.6	90.9
80°	67.5	75.5	71.1	60.9	57.9
82.5°	41.1	47.7	40.3	34.5	31.5
85°	22.0	24.2	19.1	17.6	16.9
87.5°	8.1	8.1	8.1	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)