

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: P259027

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259027
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-LD5-39-RDP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2418.0 lumens
Efficiency: N/A
Efficacy: 76.2 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

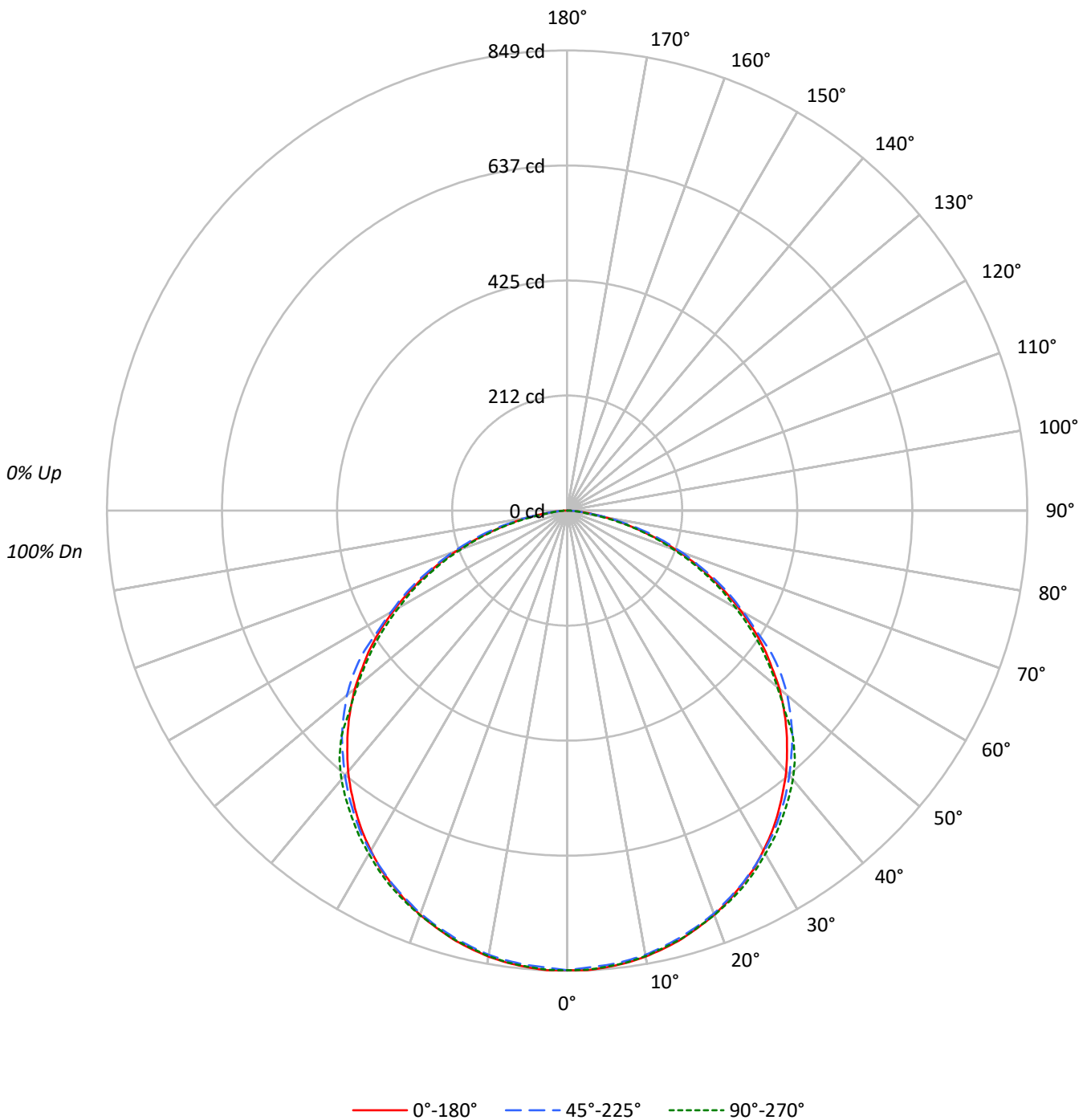
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2282	2282	2282
5°	2284	2274	2282
10°	2283	2274	2281
15°	2279	2268	2277
20°	2273	2266	2275
25°	2263	2260	2277
30°	2251	2255	2273
35°	2232	2250	2273
40°	2209	2240	2276
45°	2178	2237	2240
50°	2141	2220	2118
55°	2082	2163	2041
60°	1993	2023	1934
65°	1867	1917	1817
70°	1699	1767	1643
75°	1417	1549	1393
80°	1124	1184	965
85°	729	633	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.3
10°-20°	230.6	9.5
20°-30°	352.0	14.6
30°-40°	429.1	17.7
40°-50°	449.3	18.6
50°-60°	399.8	16.5
60°-70°	294.9	12.2
70°-80°	152.4	6.3
80°-90°	29.6	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°	662.8	27.4
0°-40°	1092.0	45.2
0°-60°	1941.1	80.3
0°-90°	2418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	846	845	842	845	845	80
15°	818	817	814	817	817	231
25°	762	762	761	767	767	351
35°	679	680	685	693	692	425
45°	572	576	588	593	589	441
55°	444	453	461	441	435	395
65°	293	314	301	291	285	291
75°	136	150	149	137	134	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°	848.0	848.0	848.0	848.0	848.0
2.5°	848.8	848.0	844.1	848.0	848.0
5°	845.6	844.8	841.7	844.8	844.8
7.5°	841.7	840.9	837.8	840.9	840.9
10°	835.4	834.6	832.2	835.4	834.6
12.5°	827.5	827.5	823.6	827.5	825.9
15°	818.1	817.3	814.1	817.3	817.3
17.5°	806.2	805.4	803.1	807.0	805.4
20°	793.6	792.8	791.3	795.2	794.4
22.5°	778.6	778.6	776.3	781.0	781.0
25°	762.1	762.1	761.3	766.8	766.8
27.5°	745.5	744.0	744.0	749.5	750.3
30°	724.3	724.3	725.8	732.2	731.4
32.5°	703.0	703.8	706.9	712.4	713.2
35°	679.3	680.1	684.9	692.7	692.0
37.5°	654.1	656.5	662.0	670.7	670.7
40°	628.9	630.5	637.6	647.0	647.8
42.5°	600.5	604.5	612.4	623.4	621.8
45°	572.2	576.1	587.9	593.4	588.7
47.5°	542.2	546.9	558.8	559.6	543.8
50°	511.5	517.0	530.4	514.6	506.0
52.5°	476.0	486.3	498.1	476.0	470.5
55°	443.7	453.2	461.0	441.3	435.0
57.5°	407.5	420.1	414.5	405.1	397.2
60°	370.4	383.8	375.9	366.5	359.4
62.5°	332.6	347.6	339.7	330.2	323.9
65°	293.2	313.7	301.1	290.8	285.3
67.5°	256.1	275.8	260.9	253.0	247.5
70°	215.9	232.5	224.6	214.4	208.8
72.5°	176.5	189.1	186.8	175.7	171.8
75°	136.3	150.5	149.0	137.1	134.0
77.5°	102.5	115.9	111.1	101.7	97.7
80°	72.5	81.2	76.4	65.4	62.3
82.5°	44.1	51.2	43.3	37.0	33.9
85°	23.6	26.0	20.5	18.9	18.1
87.5°	8.7	8.7	8.7	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)