

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: P258665

Luminaire Tested: **14CZ-LD5-25-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-UNV-L92765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2309.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

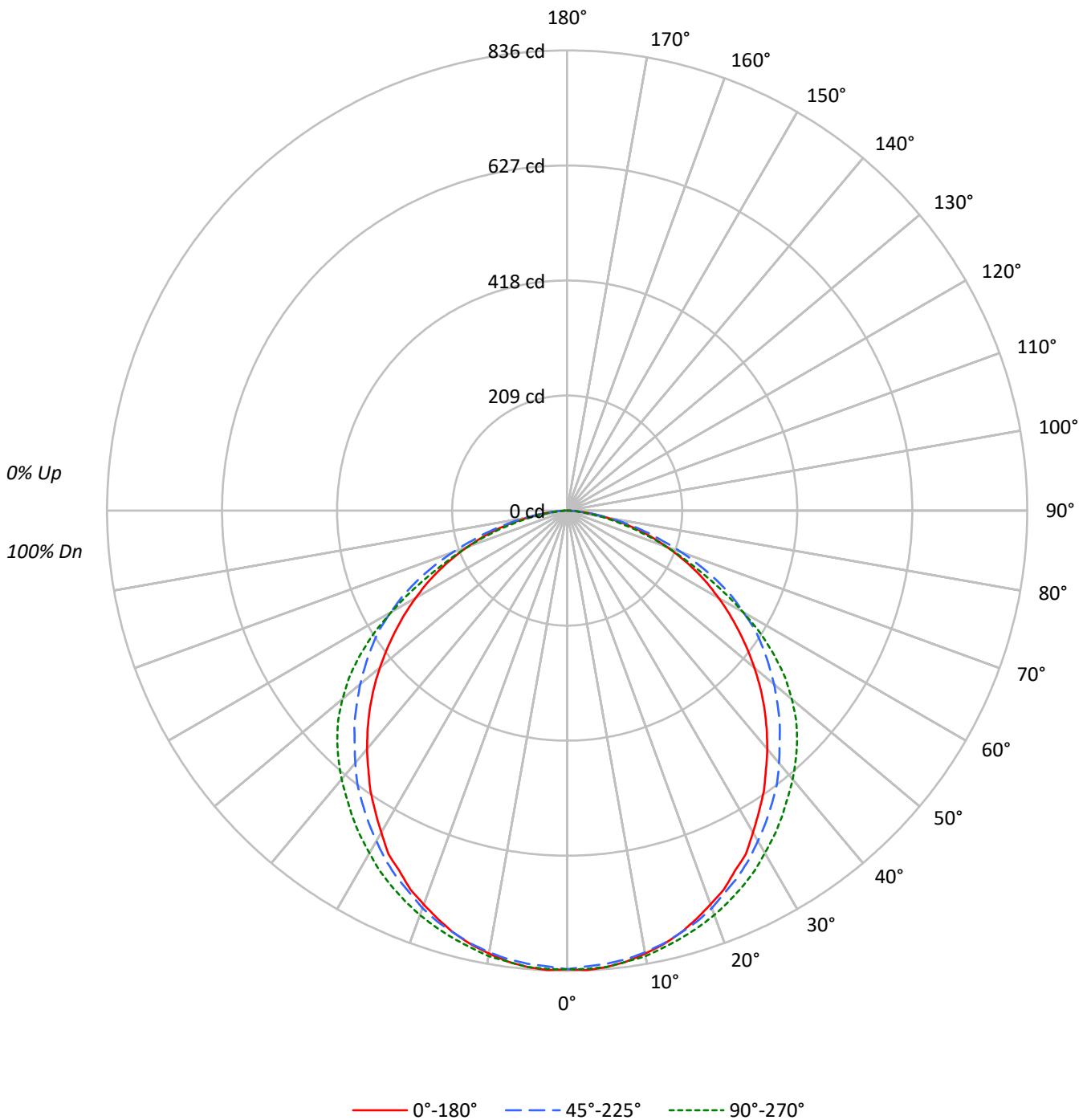
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2242	2242	2242
5°	2248	2232	2248
10°	2233	2227	2246
15°	2213	2213	2239
20°	2181	2200	2239
25°	2143	2180	2238
30°	2097	2154	2232
35°	2046	2131	2233
40°	1987	2103	2239
45°	1928	2079	2248
50°	1858	2054	2230
55°	1784	2035	2158
60°	1709	1991	1985
65°	1631	1906	1740
70°	1514	1737	1504
75°	1372	1515	1242
80°	1094	1199	917
85°	772	667	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.4
10°-20°	225.2	9.8
20°-30°	339.6	14.7
30°-40°	407.1	17.6
40°-50°	422.4	18.3
50°-60°	381.0	16.5
60°-70°	277.9	12.0
70°-80°	145.8	6.3
80°-90°	31.1	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°	643.7	27.9
0°-40°	1050.7	45.5
0°-60°	1854.2	80.3
0°-90°	2309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	832	830	826	832	832	79
15°	794	794	794	804	804	224
25°	722	725	734	750	754	333
35°	623	630	649	673	680	389
45°	507	517	546	579	591	390
55°	380	394	434	462	460	340
65°	256	271	299	288	273	253
75°	132	150	146	126	120	138
85°	25	31	22	18	17	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	833.3	833.3	833.3	833.3	833.3
2.5°	835.5	833.3	828.7	833.3	833.3
5°	832.1	829.8	826.4	832.1	832.1
7.5°	826.4	824.1	821.9	827.6	826.4
10°	817.3	816.2	815.0	821.9	821.9
12.5°	807.1	807.1	805.9	813.9	812.8
15°	794.5	794.5	794.5	803.7	803.7
17.5°	778.6	780.9	783.2	793.4	793.4
20°	761.5	763.8	768.4	780.9	782.0
22.5°	744.5	745.6	750.2	765.0	768.4
25°	721.7	725.1	734.2	750.2	753.6
27.5°	703.5	704.6	714.9	733.1	737.6
30°	675.0	683.0	693.2	713.7	718.3
32.5°	648.8	655.7	671.6	693.2	700.1
35°	622.7	629.5	648.8	672.7	679.6
37.5°	593.1	603.3	626.1	650.0	658.0
40°	565.7	574.9	598.8	628.4	637.5
42.5°	536.2	545.3	571.4	604.4	614.7
45°	506.6	516.8	546.4	579.4	590.8
47.5°	475.8	487.2	517.9	554.4	564.6
50°	443.9	456.5	490.6	528.2	532.7
52.5°	412.1	425.7	462.2	495.2	499.7
55°	380.2	393.9	433.7	462.2	459.9
57.5°	349.5	364.3	405.2	420.0	417.8
60°	317.6	333.5	370.0	376.8	368.8
62.5°	288.0	302.8	336.9	331.3	321.0
65°	256.1	270.9	299.4	288.0	273.2
67.5°	224.2	242.5	260.7	241.3	229.9
70°	192.4	212.9	220.8	201.5	191.2
72.5°	161.6	183.3	181.0	161.6	154.8
75°	132.0	150.3	145.7	126.4	119.5
77.5°	100.2	120.7	110.4	94.5	88.8
80°	70.6	88.8	77.4	63.7	59.2
82.5°	46.7	59.2	47.8	37.6	34.1
85°	25.0	30.7	21.6	18.2	17.1
87.5°	10.2	9.1	8.0	8.0	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)