

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: P258662

Luminaire Tested: **14CZ-LD5-25-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258662
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-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2173.0 lumens
Efficiency: N/A
Efficacy: 118.0 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

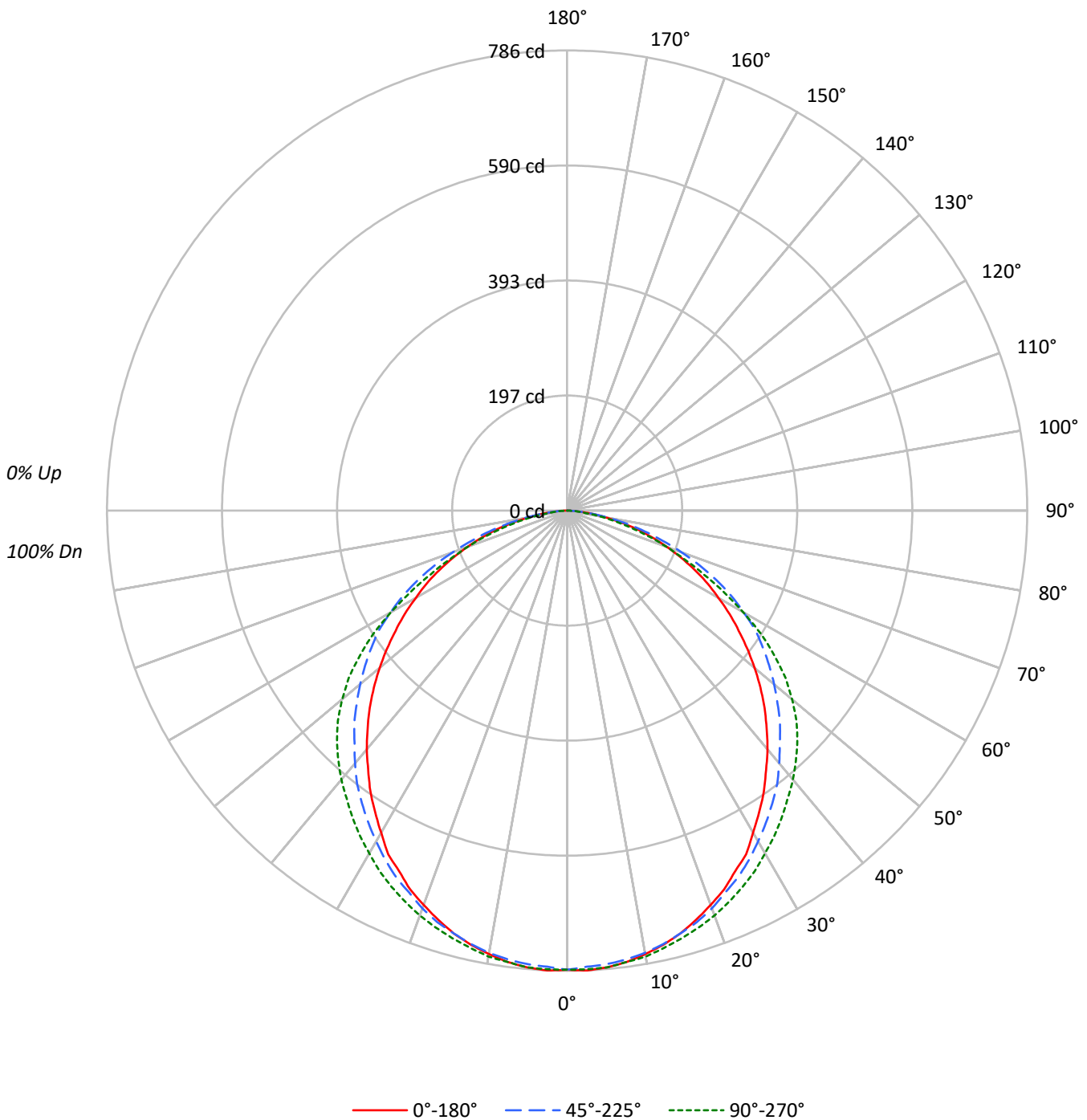
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2110	2110	2110
5°	2115	2101	2115
10°	2102	2096	2114
15°	2083	2083	2107
20°	2052	2071	2108
25°	2017	2052	2106
30°	1974	2027	2101
35°	1925	2006	2101
40°	1870	1979	2107
45°	1814	1957	2116
50°	1749	1933	2099
55°	1679	1915	2031
60°	1609	1874	1868
65°	1535	1794	1637
70°	1424	1635	1416
75°	1292	1425	1170
80°	1029	1128	863
85°	729	630	497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	3.4
10°-20°	212.0	9.8
20°-30°	319.6	14.7
30°-40°	383.1	17.6
40°-50°	397.5	18.3
50°-60°	358.6	16.5
60°-70°	261.6	12.0
70°-80°	137.2	6.3
80°-90°	29.3	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°	605.8	27.9
0°-40°	988.8	45.5
0°-60°	1745.0	80.3
0°-90°	2173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	783	781	778	783	783	74
15°	748	748	748	756	756	211
25°	679	682	691	706	709	313
35°	586	592	611	633	640	366
45°	477	486	514	545	556	367
55°	358	371	408	435	433	320
65°	241	255	282	271	257	238
75°	124	141	137	119	112	130
85°	24	29	20	17	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	784.2	784.2	784.2	784.2	784.2
2.5°	786.3	784.2	779.9	784.2	784.2
5°	783.1	781.0	777.7	783.1	783.1
7.5°	777.7	775.6	773.5	778.8	777.7
10°	769.2	768.1	767.0	773.5	773.5
12.5°	759.5	759.5	758.5	766.0	764.9
15°	747.8	747.8	747.8	756.3	756.3
17.5°	732.8	734.9	737.0	746.7	746.7
20°	716.7	718.8	723.1	734.9	736.0
22.5°	700.6	701.7	706.0	719.9	723.1
25°	679.2	682.4	691.0	706.0	709.2
27.5°	662.0	663.1	672.8	689.9	694.2
30°	635.3	642.8	652.4	671.7	676.0
32.5°	610.6	617.1	632.1	652.4	658.8
35°	586.0	592.4	610.6	633.1	639.6
37.5°	558.1	567.8	589.2	611.7	619.2
40°	532.4	541.0	563.5	591.3	599.9
42.5°	504.6	513.1	537.8	568.8	578.5
45°	476.7	486.4	514.2	545.3	556.0
47.5°	447.8	458.5	487.4	521.7	531.4
50°	417.8	429.6	461.7	497.1	501.4
52.5°	387.8	400.7	434.9	466.0	470.3
55°	357.8	370.7	408.2	434.9	432.8
57.5°	328.9	342.8	381.4	395.3	393.2
60°	298.9	313.9	348.2	354.6	347.1
62.5°	271.0	285.0	317.1	311.7	302.1
65°	241.0	255.0	281.7	271.0	257.1
67.5°	211.0	228.2	245.3	227.1	216.4
70°	181.0	200.3	207.8	189.6	180.0
72.5°	152.1	172.5	170.3	152.1	145.7
75°	124.3	141.4	137.1	118.9	112.5
77.5°	94.3	113.6	103.9	88.9	83.6
80°	66.4	83.6	72.8	60.0	55.7
82.5°	43.9	55.7	45.0	35.4	32.1
85°	23.6	28.9	20.4	17.1	16.1
87.5°	9.6	8.6	7.5	7.5	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)