

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: P258600

Luminaire Tested: **14CZ-LD5-20-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258600
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-LD5-20-UNV-L82765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2141.0 lumens
Efficiency: N/A
Efficacy: 137.0 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

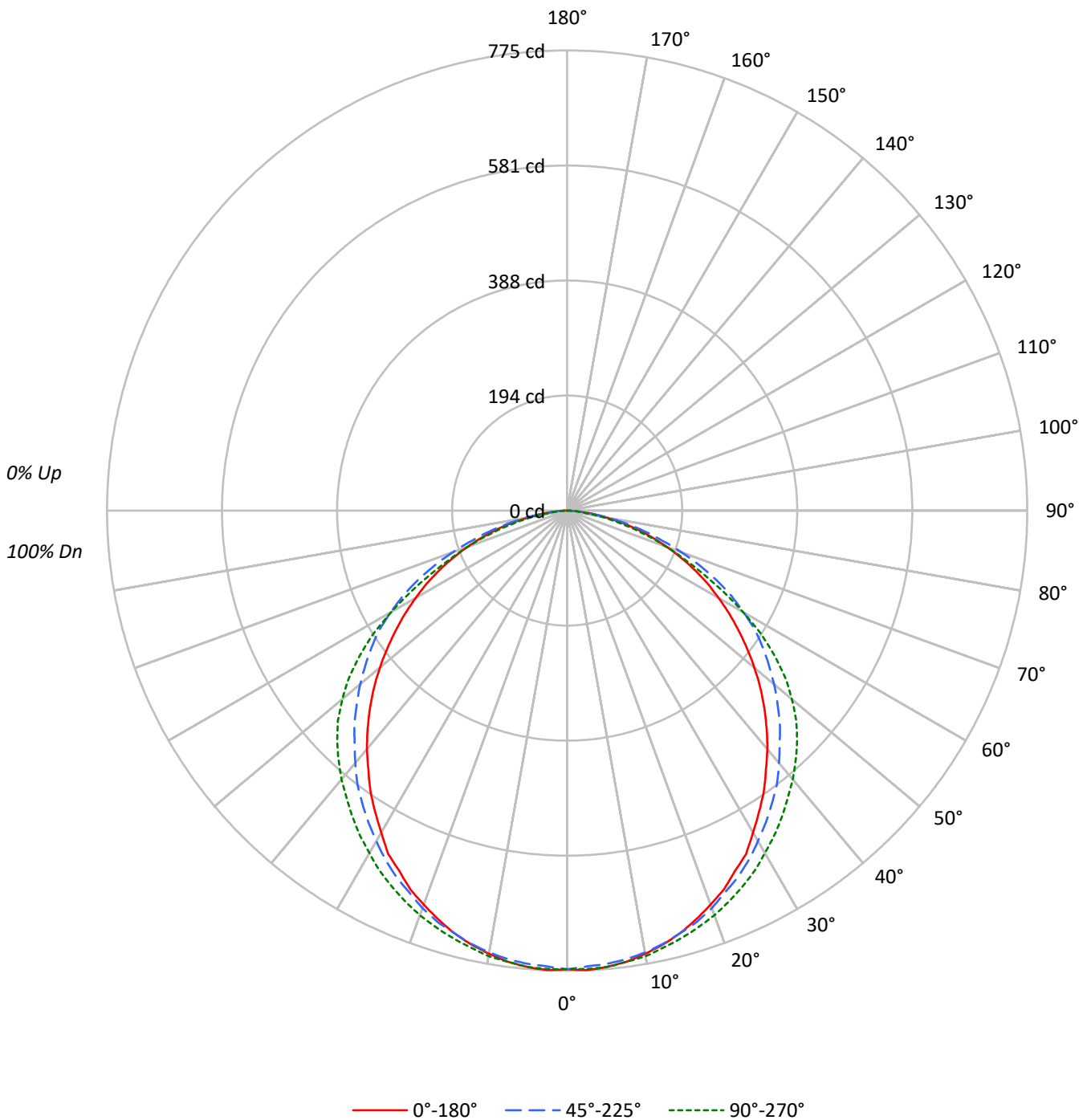
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2079	2079	2079
5°	2084	2070	2084
10°	2071	2065	2082
15°	2052	2052	2076
20°	2022	2040	2076
25°	1987	2021	2075
30°	1945	1997	2069
35°	1897	1976	2070
40°	1843	1950	2076
45°	1787	1928	2085
50°	1723	1904	2068
55°	1654	1886	2000
60°	1585	1846	1841
65°	1512	1768	1613
70°	1404	1611	1395
75°	1273	1405	1152
80°	1013	1113	851
85°	716	621	488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.4
10°-20°	208.8	9.8
20°-30°	314.9	14.7
30°-40°	377.4	17.6
40°-50°	391.7	18.3
50°-60°	353.3	16.5
60°-70°	257.7	12.0
70°-80°	135.2	6.3
80°-90°	28.8	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°	596.8	27.9
0°-40°	974.3	45.5
0°-60°	1719.2	80.3
0°-90°	2141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	772	770	766	772	772	73
15°	737	737	737	745	745	208
25°	669	672	681	696	699	309
35°	577	584	602	624	630	361
45°	470	479	507	537	548	362
55°	352	365	402	428	426	316
65°	238	251	278	267	253	235
75°	122	139	135	117	111	128
85°	23	28	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°	772.6	772.6	772.6	772.6	772.6
2.5°	774.7	772.6	768.4	772.6	772.6
5°	771.6	769.5	766.3	771.6	771.6
7.5°	766.3	764.2	762.1	767.3	766.3
10°	757.8	756.8	755.7	762.1	762.1
12.5°	748.3	748.3	747.3	754.7	753.6
15°	736.7	736.7	736.7	745.2	745.2
17.5°	722.0	724.1	726.2	735.7	735.7
20°	706.1	708.2	712.5	724.1	725.1
22.5°	690.3	691.4	695.6	709.3	712.5
25°	669.2	672.4	680.8	695.6	698.7
27.5°	652.3	653.4	662.9	679.7	684.0
30°	625.9	633.3	642.8	661.8	666.0
32.5°	601.6	608.0	622.7	642.8	649.1
35°	577.4	583.7	601.6	623.8	630.1
37.5°	549.9	559.4	580.5	602.7	610.1
40°	524.6	533.0	555.2	582.6	591.1
42.5°	497.1	505.6	529.9	560.5	570.0
45°	469.7	479.2	506.6	537.2	547.8
47.5°	441.2	451.8	480.3	514.0	523.5
50°	411.6	423.3	454.9	489.8	494.0
52.5°	382.1	394.8	428.5	459.1	463.4
55°	352.5	365.2	402.1	428.5	426.4
57.5°	324.0	337.8	375.8	389.5	387.4
60°	294.5	309.3	343.0	349.4	342.0
62.5°	267.0	280.8	312.4	307.2	297.7
65°	237.5	251.2	277.6	267.0	253.3
67.5°	207.9	224.8	241.7	223.8	213.2
70°	178.4	197.4	204.8	186.8	177.3
72.5°	149.9	169.9	167.8	149.9	143.5
75°	122.4	139.3	135.1	117.2	110.8
77.5°	92.9	111.9	102.4	87.6	82.3
80°	65.4	82.3	71.8	59.1	54.9
82.5°	43.3	54.9	44.3	34.8	31.7
85°	23.2	28.5	20.1	16.9	15.8
87.5°	9.5	8.4	7.4	7.4	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)