

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: P#

Luminaire Tested: **14CZ-LD5-20-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
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-L850-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

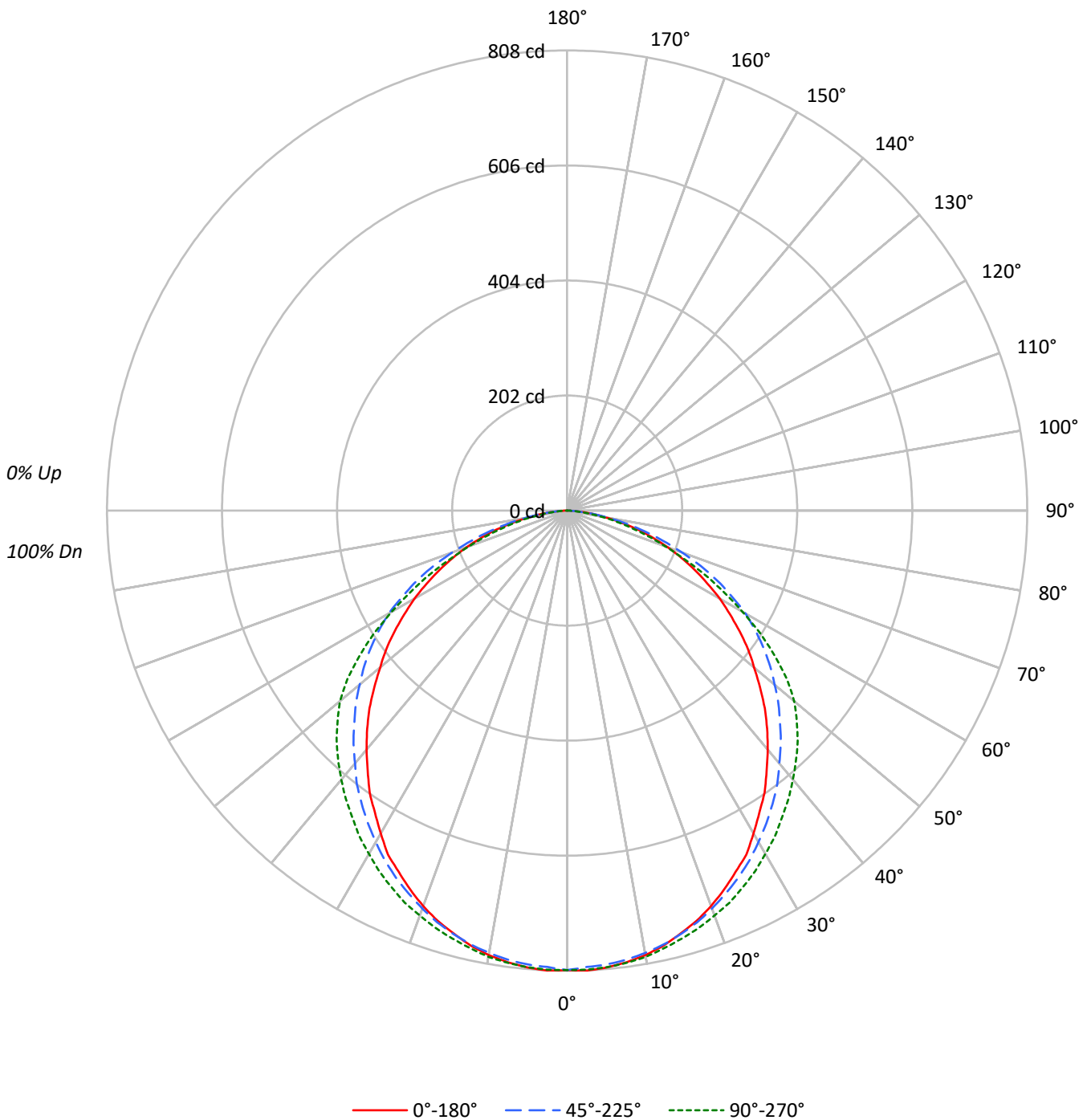
Lumens per Lamp: N/A
Luminaire Lumens: 2237.6 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 16.3
Input Voltage (V): NR
Input Current (A_{in}): 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°	2171	2171	2171
5°	2171	2144	2155
10°	2156	2122	2136
15°	2128	2096	2111
20°	2097	2063	2091
25°	2054	2028	2070
30°	2004	1987	2045
35°	1952	1945	2019
40°	1885	1895	1999
45°	1822	1848	1981
50°	1742	1802	1947
55°	1675	1754	1828
60°	1598	1688	1632
65°	1497	1558	1403
70°	1379	1355	1129
75°	1216	1105	879
80°	936	768	587
85°	591	329	223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.4
10°-20°	218.1	9.7
20°-30°	329.0	14.7
30°-40°	394.5	17.6
40°-50°	409.4	18.3
50°-60°	369.6	16.5
60°-70°	269.2	12.0
70°-80°	141.2	6.3
80°-90°	30.2	1.4
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°	623.5	27.9
0°-40°	1018.0	45.5
0°-60°	1797.0	80.3
0°-90°	2237.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2237.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	805	804	800	805	805	76
15°	769	769	770	778	778	217
25°	700	704	711	727	730	323
35°	605	610	629	652	658	377
45°	491	501	529	562	572	378
55°	370	383	421	446	445	331
65°	248	263	291	278	268	245
75°	128	146	141	122	116	134
85°	25	29	21	17	16	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	806.9	806.9	806.9	806.9	806.9
2.5°	808.5	806.3	802.1	807.4	806.9
5°	805.3	803.7	799.9	805.3	804.7
7.5°	799.9	798.9	795.6	801.5	801.0
10°	792.4	790.8	788.7	795.1	795.6
12.5°	782.3	781.7	780.7	787.6	787.1
15°	768.9	768.9	770.0	778.5	778.0
17.5°	755.5	755.5	758.2	767.8	768.4
20°	738.9	740.0	743.7	755.5	756.6
22.5°	720.2	721.3	727.7	742.7	745.3
25°	699.9	703.6	711.1	726.6	729.8
27.5°	681.1	681.7	692.9	710.0	714.3
30°	654.4	661.9	672.0	691.8	696.1
32.5°	628.2	635.7	651.2	672.6	678.5
35°	604.6	610.5	628.7	652.2	657.6
37.5°	575.2	584.8	606.2	630.8	638.3
40°	547.9	556.5	579.5	607.3	616.9
42.5°	519.6	529.2	555.4	585.4	595.0
45°	490.7	501.4	528.6	561.8	572.5
47.5°	459.1	472.5	503.5	537.2	546.8
50°	428.6	442.5	475.7	511.0	520.6
52.5°	400.8	413.1	449.5	482.1	486.4
55°	369.7	382.6	421.1	446.2	445.2
57.5°	338.7	353.1	391.7	407.2	402.9
60°	309.8	323.2	361.7	364.9	355.8
62.5°	277.7	293.2	325.9	321.0	309.8
65°	247.7	262.7	291.1	277.7	267.5
67.5°	217.2	233.3	253.6	233.8	222.1
70°	187.3	206.5	214.0	192.6	183.0
72.5°	156.8	177.1	176.6	156.2	148.2
75°	127.9	146.1	141.3	122.0	116.1
77.5°	97.4	115.6	106.5	92.0	86.7
80°	69.0	86.1	74.4	63.1	59.4
82.5°	47.1	57.3	46.6	36.9	35.3
85°	24.6	29.4	21.4	16.6	15.5
87.5°	9.1	8.6	7.5	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)