

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-L840-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-L840-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

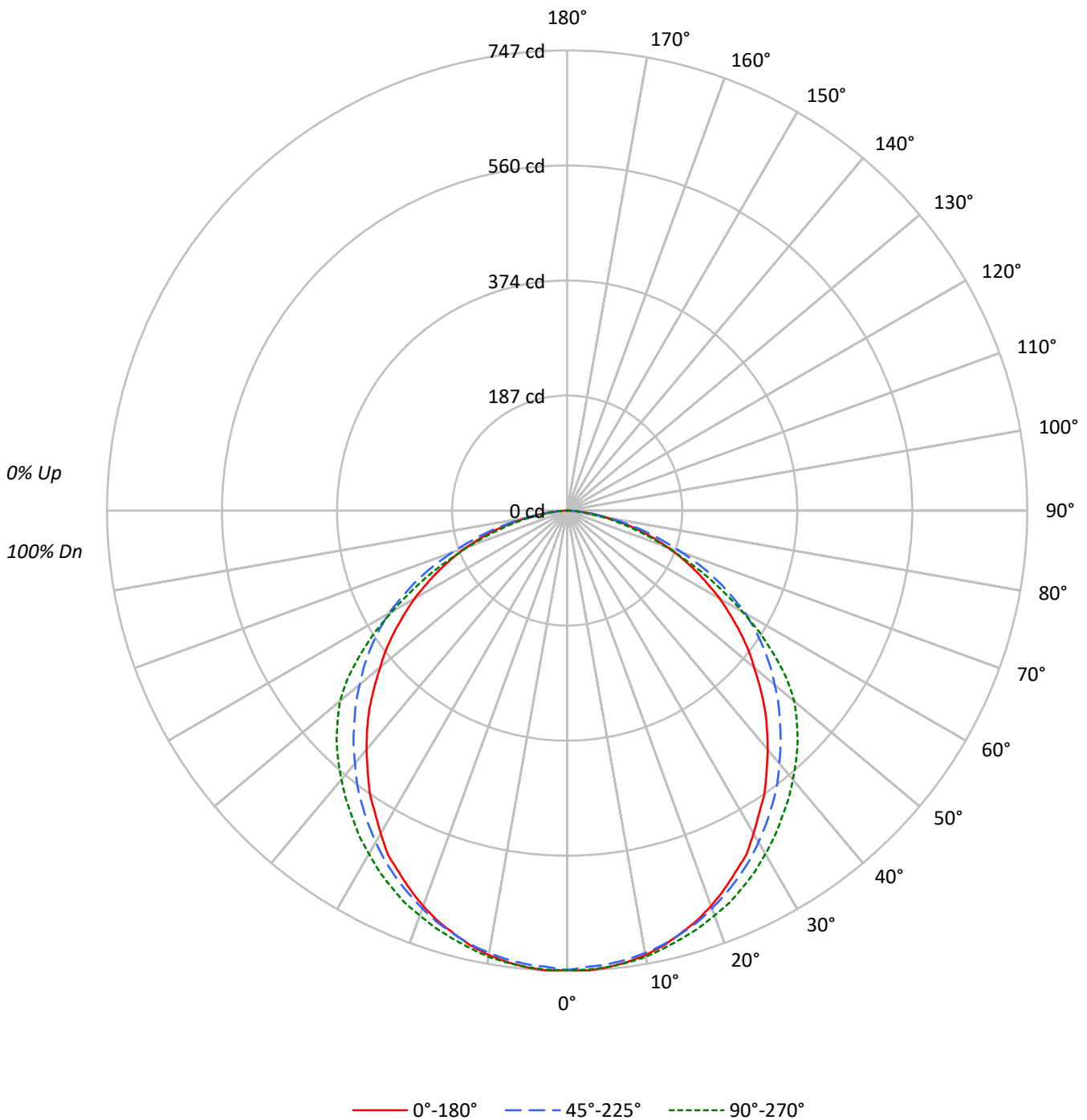
Lumens per Lamp: N/A
Luminaire Lumens: 2068.5 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

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°	2007	2007	2007
5°	2006	1982	1992
10°	1993	1962	1975
15°	1967	1937	1951
20°	1939	1908	1933
25°	1899	1875	1914
30°	1853	1837	1890
35°	1805	1798	1866
40°	1743	1752	1848
45°	1684	1709	1831
50°	1611	1665	1800
55°	1548	1622	1689
60°	1477	1561	1509
65°	1384	1440	1297
70°	1274	1253	1044
75°	1124	1021	812
80°	866	710	543
85°	548	304	206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	3.4
10°-20°	201.6	9.7
20°-30°	304.2	14.7
30°-40°	364.7	17.6
40°-50°	378.5	18.3
50°-60°	341.7	16.5
60°-70°	248.9	12.0
70°-80°	130.5	6.3
80°-90°	27.9	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°	576.4	27.9
0°-40°	941.1	45.5
0°-60°	1661.3	80.3
0°-90°	2068.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2068.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	744	743	740	744	744	71
15°	711	711	712	720	719	201
25°	647	650	657	672	675	298
35°	559	564	581	603	608	349
45°	454	464	489	519	529	349
55°	342	354	389	412	412	306
65°	229	243	269	257	247	227
75°	118	135	131	113	107	124
85°	23	27	20	15	14	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	745.9	745.9	745.9	745.9	745.9
2.5°	747.4	745.4	741.5	746.4	745.9
5°	744.4	743.0	739.5	744.4	744.0
7.5°	739.5	738.5	735.5	741.0	740.5
10°	732.6	731.1	729.1	735.1	735.5
12.5°	723.2	722.7	721.7	728.1	727.6
15°	710.8	710.8	711.8	719.7	719.2
17.5°	698.4	698.4	700.9	709.8	710.3
20°	683.1	684.1	687.6	698.4	699.4
22.5°	665.8	666.8	672.7	686.6	689.0
25°	647.0	650.5	657.4	671.7	674.7
27.5°	629.7	630.2	640.6	656.4	660.4
30°	605.0	611.9	621.3	639.6	643.5
32.5°	580.7	587.6	602.0	621.8	627.2
35°	559.0	564.4	581.2	603.0	607.9
37.5°	531.7	540.7	560.4	583.2	590.1
40°	506.5	514.4	535.7	561.4	570.3
42.5°	480.3	489.2	513.4	541.1	550.1
45°	453.6	463.5	488.7	519.4	529.3
47.5°	424.4	436.8	465.5	496.6	505.5
50°	396.2	409.1	439.7	472.4	481.3
52.5°	370.5	381.9	415.5	445.7	449.6
55°	341.8	353.7	389.3	412.5	411.5
57.5°	313.1	326.5	362.1	376.4	372.5
60°	286.4	298.8	334.4	337.4	328.9
62.5°	256.7	271.1	301.2	296.8	286.4
65°	229.0	242.9	269.1	256.7	247.3
67.5°	200.8	215.7	234.5	216.2	205.3
70°	173.1	190.9	197.9	178.1	169.2
72.5°	144.9	163.7	163.2	144.4	137.0
75°	118.2	135.0	130.6	112.8	107.3
77.5°	90.0	106.8	98.4	85.1	80.1
80°	63.8	79.6	68.8	58.4	54.9
82.5°	43.5	52.9	43.0	34.1	32.6
85°	22.8	27.2	19.8	15.3	14.3
87.5°	8.4	7.9	6.9	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)