

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-LD5-25-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-LD5-25-UNV-L840-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

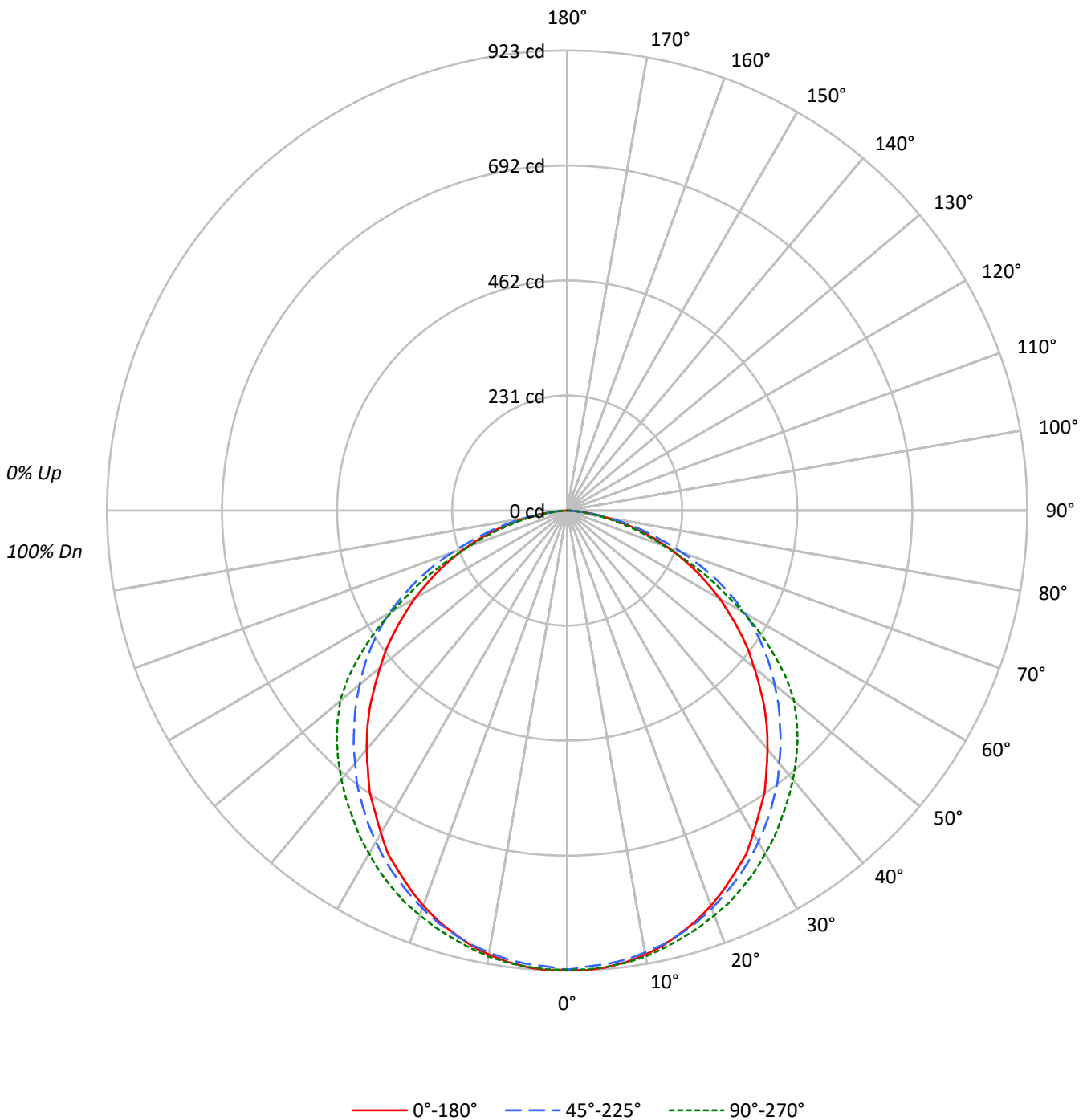
Lumens per Lamp: N/A
Luminaire Lumens: 2554.1 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 20.46
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°	2478	2478	2478
5°	2478	2448	2460
10°	2461	2422	2439
15°	2429	2392	2409
20°	2393	2355	2386
25°	2345	2315	2363
30°	2288	2268	2334
35°	2228	2220	2304
40°	2152	2163	2282
45°	2080	2110	2261
50°	1989	2057	2223
55°	1912	2002	2086
60°	1824	1927	1863
65°	1709	1778	1601
70°	1574	1547	1289
75°	1388	1260	1003
80°	1070	876	670
85°	675	375	255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.4
10°-20°	248.9	9.7
20°-30°	375.6	14.7
30°-40°	450.3	17.6
40°-50°	467.3	18.3
50°-60°	421.9	16.5
60°-70°	307.3	12.0
70°-80°	161.2	6.3
80°-90°	34.5	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°	711.6	27.9
0°-40°	1162.0	45.5
0°-60°	2051.2	80.3
0°-90°	2554.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2554.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	919	917	913	919	919	87
15°	878	878	879	889	888	248
25°	799	803	812	829	833	368
35°	690	697	718	744	751	430
45°	560	572	603	641	654	431
55°	422	437	481	509	508	377
65°	283	300	332	317	305	280
75°	146	167	161	139	132	154
85°	28	34	24	19	18	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.0	921.0	921.0	921.0	921.0
2.5°	922.8	920.4	915.5	921.6	921.0
5°	919.2	917.3	913.1	919.2	918.6
7.5°	913.1	911.9	908.2	914.9	914.3
10°	904.5	902.7	900.2	907.6	908.2
12.5°	892.9	892.3	891.1	899.0	898.4
15°	877.7	877.7	878.9	888.6	888.0
17.5°	862.4	862.4	865.4	876.4	877.0
20°	843.4	844.7	848.9	862.4	863.6
22.5°	822.1	823.3	830.6	847.7	850.8
25°	798.9	803.1	811.7	829.4	833.1
27.5°	777.5	778.1	790.9	810.5	815.4
30°	746.9	755.5	767.1	789.7	794.6
32.5°	717.0	725.6	743.3	767.7	774.4
35°	690.1	696.9	717.6	744.5	750.6
37.5°	656.6	667.6	692.0	720.1	728.6
40°	625.4	635.2	661.4	693.2	704.2
42.5°	593.0	604.0	634.0	668.2	679.2
45°	560.1	572.3	603.4	641.3	653.5
47.5°	524.0	539.3	574.7	613.2	624.2
50°	489.2	505.1	543.0	583.3	594.3
52.5°	457.5	471.5	513.0	550.3	555.2
55°	422.0	436.7	480.7	509.4	508.1
57.5°	386.6	403.1	447.1	464.8	459.9
60°	353.6	368.9	412.9	416.5	406.2
62.5°	317.0	334.7	371.9	366.5	353.6
65°	282.8	299.9	332.2	317.0	305.4
67.5°	248.0	266.3	289.5	266.9	253.5
70°	213.8	235.8	244.3	219.9	208.9
72.5°	179.0	202.2	201.5	178.3	169.2
75°	146.0	166.7	161.2	139.3	132.5
77.5°	111.2	131.9	121.5	105.0	98.9
80°	78.8	98.3	84.9	72.1	67.8
82.5°	53.7	65.4	53.1	42.1	40.3
85°	28.1	33.6	24.4	18.9	17.7
87.5°	10.4	9.8	8.6	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)