

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2605.2 lumens
Efficiency: N/A
Efficacy: 127.3 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

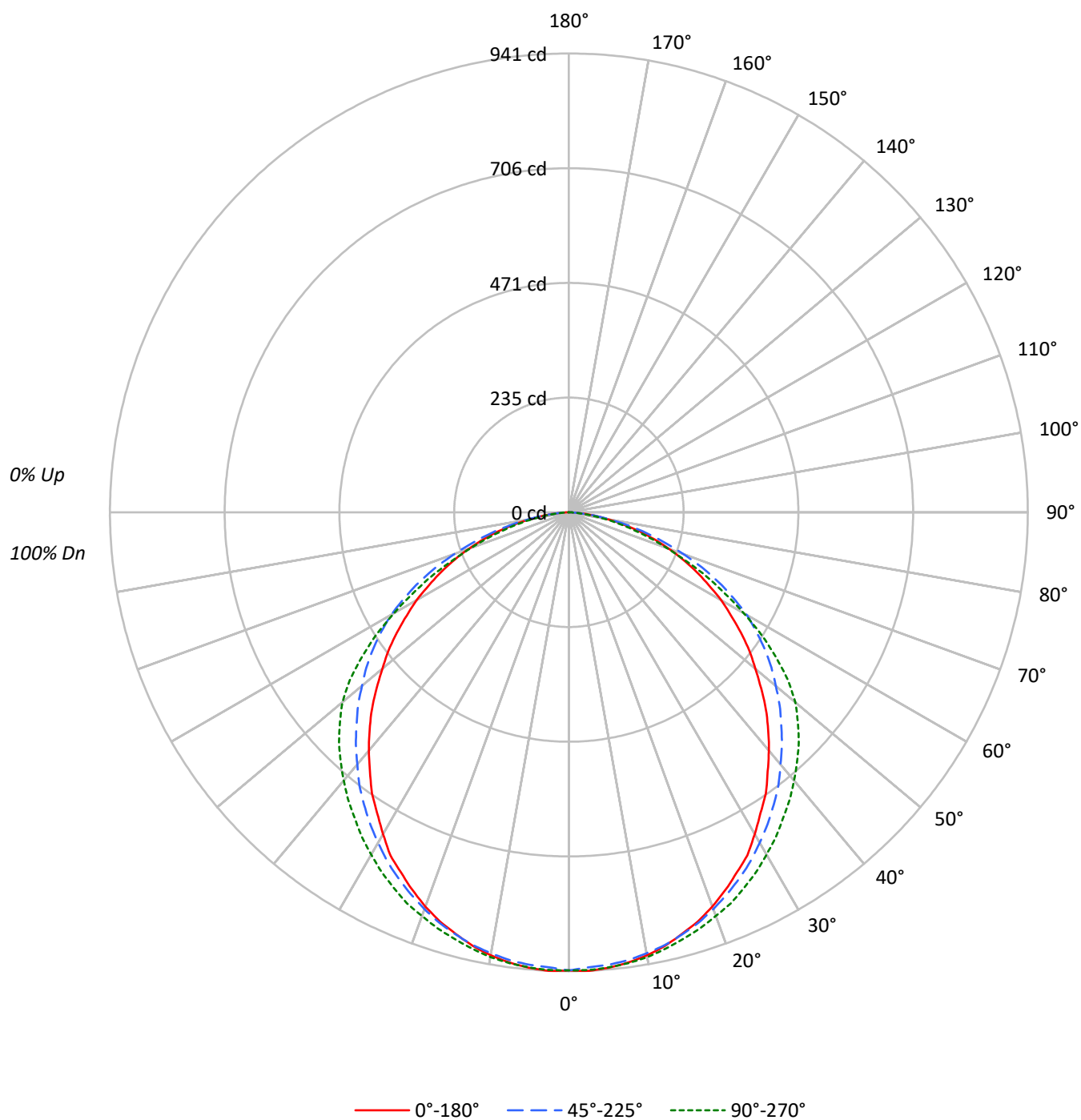
Input Watts (W): 20.46
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	95		98	95	92		94	91	89		90	88	86
2	99	91	84	79	97	89	83	78		86	80	76		82	78	74		79	76	73
3	90	80	72	66	88	78	71	65		75	69	64		73	67	63		70	66	62
4	83	71	62	56	81	70	61	55		67	60	54		65	59	54		63	57	53
5	76	63	54	48	74	62	54	48		60	53	47		58	52	46		56	51	46
6	70	57	48	42	68	56	48	42		54	47	41		53	46	41		51	45	40
7	65	52	43	37	63	51	43	37		49	42	36		48	41	36		47	40	36
8	61	47	39	33	59	46	38	33		45	38	33		44	37	32		43	37	32
9	57	43	35	30	55	43	35	29		42	34	29		40	34	29		39	33	29
10	53	40	32	27	52	39	32	27		38	31	27		37	31	26		37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2528	2528	2528
5°	2527	2496	2509
10°	2510	2471	2488
15°	2477	2440	2458
20°	2441	2402	2434
25°	2391	2361	2410
30°	2334	2313	2381
35°	2273	2265	2350
40°	2195	2206	2328
45°	2121	2152	2306
50°	2029	2097	2267
55°	1950	2042	2128
60°	1861	1965	1901
65°	1743	1814	1633
70°	1605	1578	1315
75°	1416	1286	1024
80°	1091	894	683
85°	689	382	261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	3.4
10°-20°	253.9	9.7
20°-30°	383.1	14.7
30°-40°	459.3	17.6
40°-50°	476.7	18.3
50°-60°	430.3	16.5
60°-70°	313.4	12.0
70°-80°	164.4	6.3
80°-90°	35.2	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°	725.9	27.9
0°-40°	1185.2	45.5
0°-60°	2092.2	80.3
0°-90°	2605.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2605.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	938	936	931	938	937	89
15°	895	895	896	906	906	253
25°	815	819	828	846	850	376
35°	704	711	732	759	766	439
45°	571	584	616	654	667	440
55°	430	445	490	520	518	385
65°	288	306	339	323	312	285
75°	149	170	164	142	135	157
85°	29	34	25	19	18	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.4	939.4	939.4	939.4	939.4
2.5°	941.3	938.8	933.8	940.1	939.4
5°	937.6	935.7	931.3	937.6	936.9
7.5°	931.3	930.1	926.4	933.2	932.6
10°	922.6	920.7	918.3	925.7	926.4
12.5°	910.8	910.2	908.9	917.0	916.4
15°	895.2	895.2	896.4	906.4	905.8
17.5°	879.6	879.6	882.7	894.0	894.6
20°	860.3	861.6	865.9	879.6	880.9
22.5°	838.5	839.8	847.2	864.7	867.8
25°	814.8	819.2	827.9	846.0	849.7
27.5°	793.0	793.7	806.7	826.7	831.7
30°	761.9	770.6	782.4	805.5	810.5
32.5°	731.4	740.1	758.2	783.1	789.9
35°	704.0	710.8	732.0	759.4	765.6
37.5°	669.7	680.9	705.8	734.5	743.2
40°	637.9	647.9	674.7	707.1	718.3
42.5°	604.9	616.1	646.6	681.5	692.7
45°	571.3	583.7	615.5	654.1	666.6
47.5°	534.5	550.1	586.2	625.5	636.7
50°	499.0	515.2	553.8	594.9	606.1
52.5°	466.6	480.9	523.3	561.3	566.3
55°	430.5	445.4	490.3	519.6	518.3
57.5°	394.3	411.2	456.0	474.1	469.1
60°	360.7	376.3	421.1	424.9	414.3
62.5°	323.3	341.4	379.4	373.8	360.7
65°	288.4	305.9	338.9	323.3	311.5
67.5°	252.9	271.6	295.3	272.2	258.5
70°	218.0	240.5	249.2	224.3	213.1
72.5°	182.5	206.2	205.6	181.9	172.6
75°	148.9	170.1	164.5	142.0	135.2
77.5°	113.4	134.6	124.0	107.2	100.9
80°	80.4	100.3	86.6	73.5	69.1
82.5°	54.8	66.7	54.2	43.0	41.1
85°	28.7	34.3	24.9	19.3	18.1
87.5°	10.6	10.0	8.7	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)