

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: P219270

Luminaire Tested: **14AC-LD5-25-UNV-L840-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P219270
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: 14AC-LD5-25-UNV-L840-CD1-U
Description: ACCORD 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

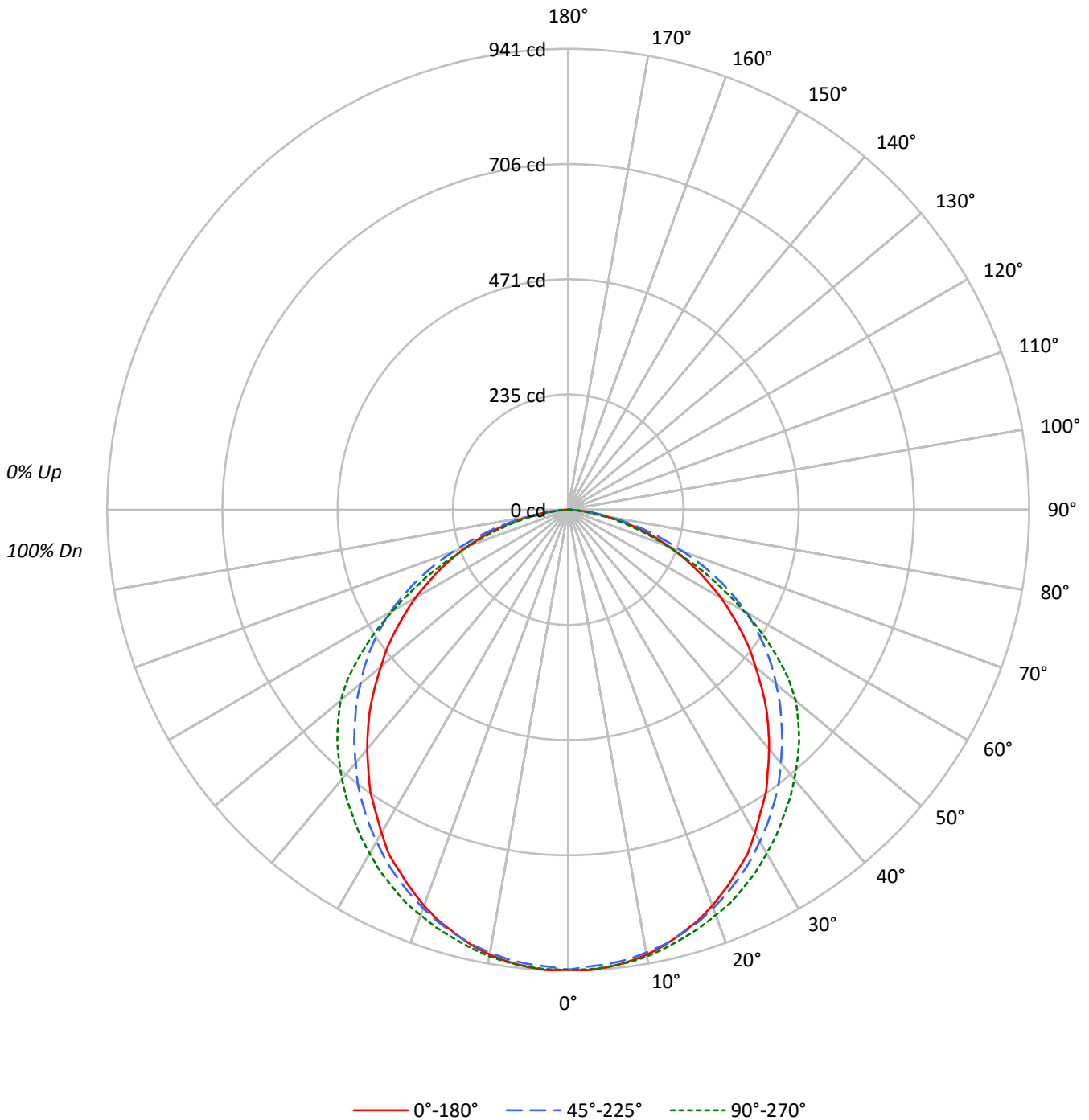
Lumens per Lamp: N/A
Luminaire Lumens: 2605.2 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 20.46
Input Voltage (V): NR
Input Current (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°	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)