

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: P229513

Luminaire Tested: **14RLN-LD5-26-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36064)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-26-UNV-L830-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR
Light Source: (112)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2476.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

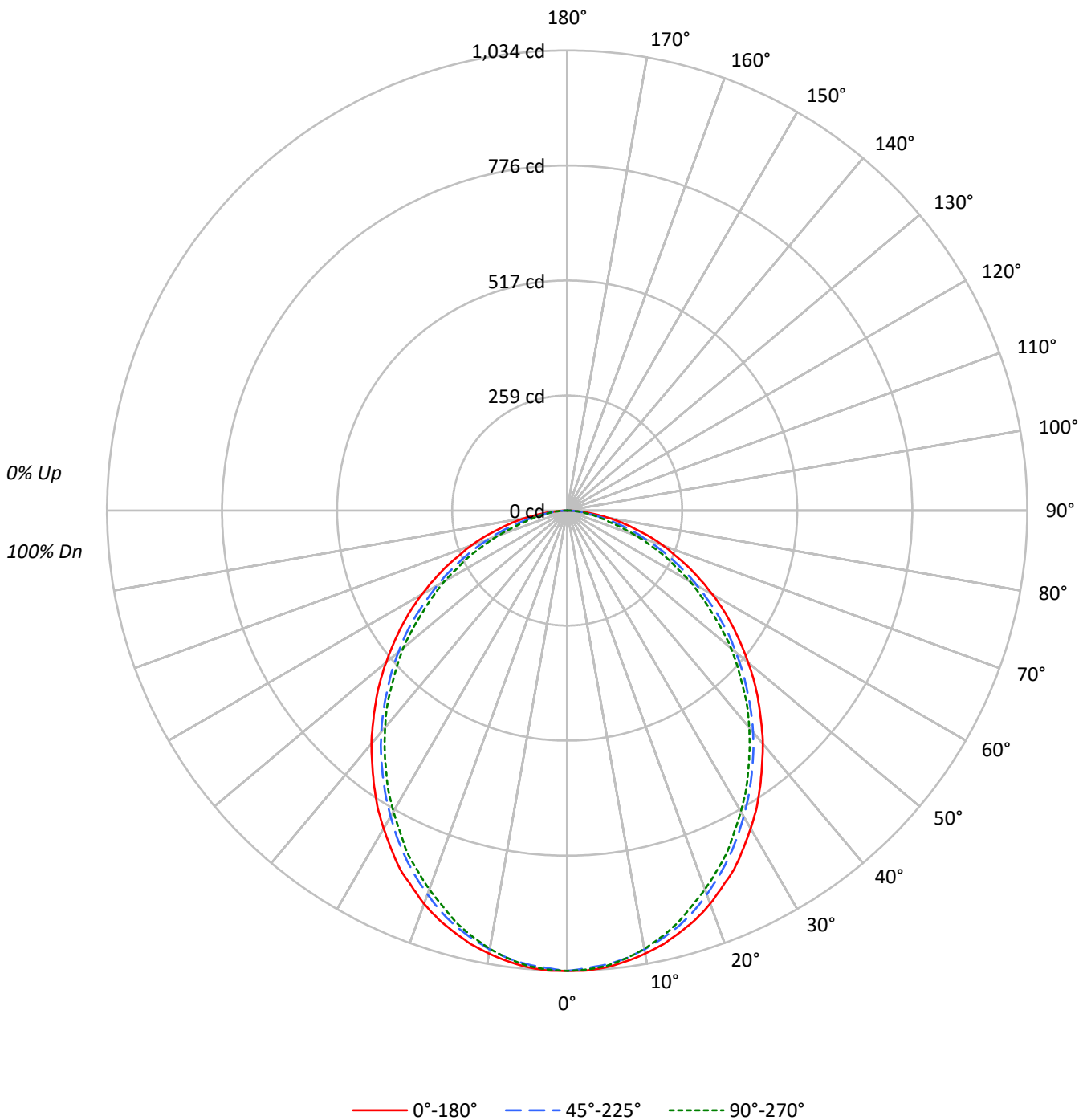
Input Watts (W): 24.72
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229513

CATALOG NUMBER: 14RLN-LD5-26-UNV-L830-CD1-SVPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229513

CATALOG NUMBER: 14RLN-LD5-26-UNV-L830-CD1-SVPD1-U

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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87					85				
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74					72				
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64					61				
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55					53				
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43					41				
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38					36				
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34					32				
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31					29				
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3486	3486	3486
5°	3484	3463	3473
10°	3459	3426	3422
15°	3422	3373	3347
20°	3371	3291	3248
25°	3304	3197	3157
30°	3208	3087	3037
35°	3110	2973	2921
40°	3010	2859	2798
45°	2898	2725	2659
50°	2784	2593	2520
55°	2667	2447	2321
60°	2540	2273	2150
65°	2399	2083	1929
70°	2258	1846	1635
75°	2035	1575	1268
80°	1809	1246	1122
85°	1488	994	1036



TEST NUMBER: P229513

CATALOG NUMBER: 14RLN-LD5-26-UNV-L830-CD1-SVPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	3.9
10°-20°	272.8	11.0
20°-30°	397.7	16.1
30°-40°	455.9	18.4
40°-50°	445.7	18.0
50°-60°	376.0	15.2
60°-70°	262.8	10.6
70°-80°	134.0	5.4
80°-90°	33.8	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°	767.8	31.0
0°-40°	1223.7	49.4
0°-60°	2045.3	82.6
0°-90°	2476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1030	1028	1024	1027	1027	98
15°	981	978	967	964	960	277
25°	889	878	860	851	849	408
35°	756	745	723	715	710	473
45°	608	592	572	564	558	469
55°	454	437	417	405	395	406
65°	301	283	261	246	242	298
75°	156	144	121	106	97	168
85°	38	29	26	27	27	45
90°	0	0	0	0	0	



TEST NUMBER: P229513

CATALOG NUMBER: 14RLN-LD5-26-UNV-L830-CD1-SVPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1034.4	1034.4	1034.4	1034.4	1034.4
2.5°	1034.4	1032.3	1029.1	1033.4	1032.3
5°	1030.1	1028.0	1023.7	1026.9	1026.9
7.5°	1021.6	1019.4	1015.1	1017.3	1015.1
10°	1010.9	1008.7	1001.2	1002.3	1000.2
12.5°	998.0	993.7	985.2	984.1	980.9
15°	980.9	977.7	967.0	963.7	959.5
17.5°	962.7	956.3	944.5	938.0	931.6
20°	940.2	931.6	917.7	910.2	905.9
22.5°	913.4	907.0	889.9	881.3	877.0
25°	888.8	878.1	859.9	851.3	849.2
27.5°	856.7	848.1	827.8	820.3	813.8
30°	824.5	814.9	793.5	786.0	780.6
32.5°	792.4	781.7	759.2	750.7	747.4
35°	756.0	745.3	722.8	715.3	710.0
37.5°	719.6	706.7	687.5	678.9	673.6
40°	684.3	669.3	650.0	640.4	636.1
42.5°	645.7	629.6	611.4	601.8	599.7
45°	608.2	592.2	571.8	564.3	557.9
47.5°	570.8	552.5	534.3	523.6	519.4
50°	531.1	514.0	494.7	484.0	480.8
52.5°	492.6	475.4	457.2	445.5	438.0
55°	454.0	436.9	416.6	404.8	395.1
57.5°	416.6	396.2	375.9	361.9	356.6
60°	376.9	358.7	337.3	323.4	319.1
62.5°	338.4	322.3	299.8	283.8	276.3
65°	300.9	282.7	261.3	246.3	242.0
67.5°	262.4	246.3	224.9	207.7	200.2
70°	229.2	208.8	187.4	172.4	166.0
72.5°	193.8	175.6	155.3	138.1	128.5
75°	156.3	143.5	121.0	106.0	97.4
77.5°	126.4	111.4	91.0	79.2	77.1
80°	93.2	81.4	64.2	58.9	57.8
82.5°	65.3	53.5	43.9	41.8	40.7
85°	38.5	28.9	25.7	26.8	26.8
87.5°	16.1	11.8	11.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)