

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: P295563

Luminaire Tested: **14RLN-LD5-23-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-23-UNV-L82765-W2A1-U-5000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2437.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

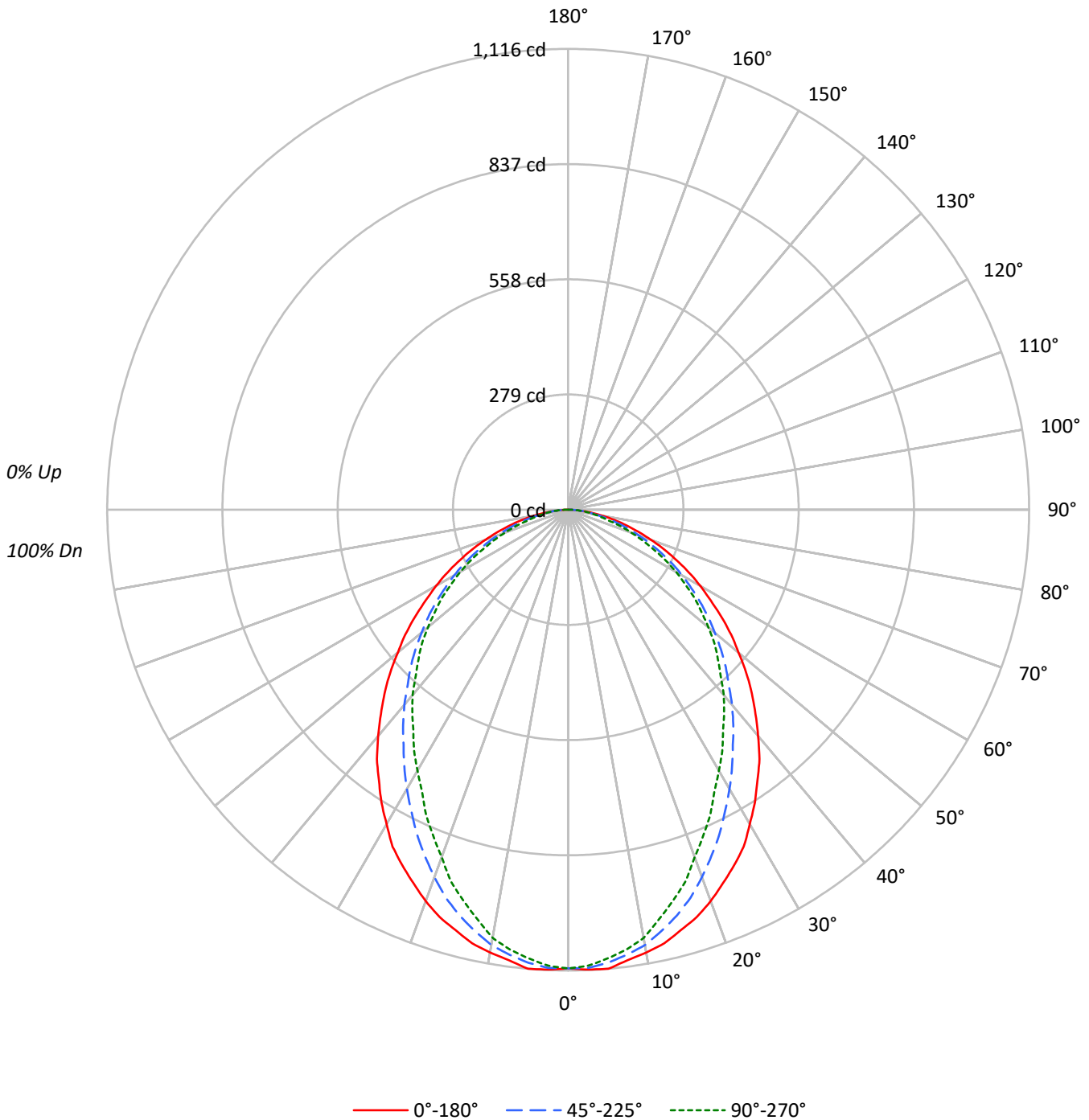
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2989	2989	2989
5°	3014	2975	2947
10°	2976	2925	2877
15°	2937	2833	2730
20°	2889	2712	2564
25°	2821	2573	2417
30°	2732	2428	2268
35°	2624	2282	2147
40°	2513	2166	2057
45°	2393	2053	1951
50°	2254	1939	1853
55°	2125	1830	1753
60°	1989	1717	1623
65°	1842	1586	1455
70°	1677	1426	1288
75°	1509	1274	1049
80°	1292	1037	989
85°	1050	985	985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	4.3
10°-20°	285.4	11.7
20°-30°	400.6	16.4
30°-40°	444.3	18.2
40°-50°	426.5	17.5
50°-60°	357.5	14.7
60°-70°	250.9	10.3
70°-80°	131.0	5.4
80°-90°	36.7	1.5
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°	790.0	32.4
0°-40°	1234.3	50.6
0°-60°	2018.4	82.8
0°-90°	2437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1116	1101	1101	1094	1091	105
15°	1054	1036	1017	990	980	297
25°	950	916	867	824	814	437
35°	799	754	695	661	654	500
45°	629	581	539	519	513	484
55°	453	419	390	378	374	405
65°	289	270	249	234	228	287
75°	145	134	122	108	101	154
85°	34	32	32	32	32	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1110.7	1110.7	1110.7	1110.7	1110.7
2.5°	1114.8	1108.6	1110.7	1110.7	1105.5
5°	1115.8	1101.4	1101.4	1094.2	1091.1
7.5°	1100.4	1089.1	1087.0	1077.7	1074.7
10°	1089.1	1077.7	1070.5	1058.2	1053.0
12.5°	1075.7	1058.2	1044.8	1024.2	1016.0
15°	1054.1	1035.5	1017.0	990.3	980.0
17.5°	1034.5	1012.9	985.1	955.3	943.9
20°	1008.8	983.0	947.0	905.8	895.5
22.5°	978.9	949.1	906.9	862.6	854.4
25°	950.1	916.1	866.7	824.5	814.2
27.5°	920.3	879.1	822.5	777.2	766.9
30°	879.1	836.9	781.3	737.0	729.8
32.5°	841.0	798.8	738.1	702.0	693.8
35°	798.8	754.5	694.8	660.9	653.6
37.5°	760.7	709.2	656.7	623.8	619.7
40°	715.4	669.1	616.6	591.9	585.7
42.5°	671.1	624.8	575.4	553.8	546.6
45°	628.9	580.6	539.4	518.8	512.6
47.5°	584.7	540.4	501.3	484.8	480.7
50°	538.4	499.2	463.2	447.8	442.6
52.5°	497.2	457.0	427.2	412.8	406.6
55°	452.9	419.0	390.1	377.8	373.7
57.5°	408.7	380.9	353.1	341.7	335.6
60°	369.5	341.7	319.1	305.7	301.6
62.5°	329.4	305.7	284.1	271.8	266.6
65°	289.3	269.7	249.1	233.7	228.5
67.5°	252.2	230.6	214.1	200.7	195.6
70°	213.1	197.6	181.2	168.8	163.7
72.5°	177.1	165.7	151.3	137.9	132.8
75°	145.1	133.8	122.5	108.1	100.9
77.5°	113.2	106.0	94.7	82.3	82.3
80°	83.4	79.3	66.9	64.9	63.8
82.5°	57.6	55.6	48.4	47.4	47.4
85°	34.0	31.9	31.9	31.9	31.9
87.5°	14.4	15.4	16.5	16.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)