

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: P295559

Luminaire Tested: **14RLN-LD5-23-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295559
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-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2235.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

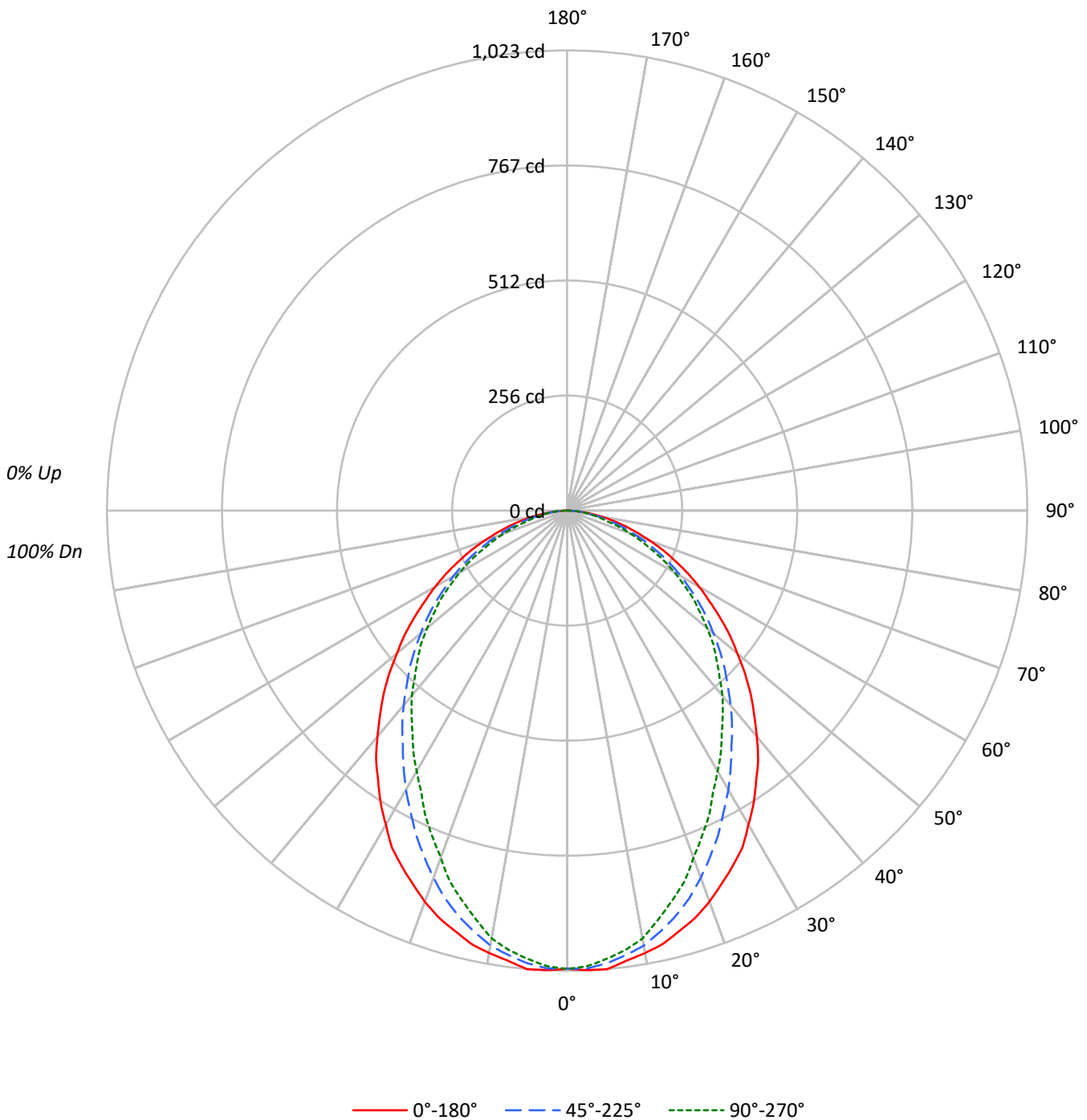
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2741	2741	2741
5°	2764	2729	2703
10°	2729	2683	2639
15°	2693	2598	2504
20°	2649	2487	2352
25°	2587	2360	2217
30°	2505	2226	2080
35°	2407	2093	1969
40°	2305	1987	1887
45°	2195	1883	1789
50°	2067	1778	1699
55°	1949	1679	1608
60°	1824	1575	1489
65°	1689	1455	1335
70°	1537	1308	1181
75°	1384	1168	962
80°	1185	951	907
85°	963	905	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	4.3
10°-20°	261.8	11.7
20°-30°	367.4	16.4
30°-40°	407.5	18.2
40°-50°	391.2	17.5
50°-60°	327.9	14.7
60°-70°	230.1	10.3
70°-80°	120.2	5.4
80°-90°	33.6	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°	724.5	32.4
0°-40°	1132.0	50.6
0°-60°	1851.1	82.8
0°-90°	2235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1023	1010	1010	1004	1001	97
15°	967	950	933	908	899	273
25°	871	840	795	756	747	401
35°	733	692	637	606	600	459
45°	577	532	495	476	470	444
55°	415	384	358	346	343	372
65°	265	247	228	214	210	264
75°	133	123	112	99	92	141
85°	31	29	29	29	29	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1018.6	1018.6	1018.6	1018.6	1018.6
2.5°	1022.4	1016.7	1018.6	1018.6	1013.9
5°	1023.3	1010.1	1010.1	1003.5	1000.7
7.5°	1009.2	998.8	996.9	988.4	985.6
10°	998.8	988.4	981.8	970.5	965.8
12.5°	986.5	970.5	958.2	939.3	931.8
15°	966.7	949.7	932.7	908.2	898.7
17.5°	948.8	928.9	903.5	876.1	865.7
20°	925.2	901.6	868.5	830.8	821.3
22.5°	897.8	870.4	831.7	791.1	783.6
25°	871.4	840.2	794.9	756.2	746.7
27.5°	844.0	806.2	754.3	712.8	703.3
30°	806.2	767.5	716.5	675.9	669.3
32.5°	771.3	732.6	676.9	643.8	636.3
35°	732.6	692.0	637.2	606.1	599.5
37.5°	697.6	650.4	602.3	572.1	568.3
40°	656.1	613.6	565.5	542.8	537.2
42.5°	615.5	573.0	527.7	507.9	501.3
45°	576.8	532.4	494.7	475.8	470.1
47.5°	536.2	495.6	459.7	444.6	440.9
50°	493.7	457.9	424.8	410.7	405.9
52.5°	456.0	419.2	391.8	378.6	372.9
55°	415.4	384.2	357.8	346.5	342.7
57.5°	374.8	349.3	323.8	313.4	307.8
60°	338.9	313.4	292.7	280.4	276.6
62.5°	302.1	280.4	260.6	249.2	244.5
65°	265.3	247.3	228.5	214.3	209.6
67.5°	231.3	211.5	196.4	184.1	179.4
70°	195.4	181.3	166.2	154.8	150.1
72.5°	162.4	152.0	138.8	126.5	121.8
75°	133.1	122.7	112.3	99.1	92.5
77.5°	103.8	97.2	86.9	75.5	75.5
80°	76.5	72.7	61.4	59.5	58.5
82.5°	52.9	51.0	44.4	43.4	43.4
85°	31.2	29.3	29.3	29.3	29.3
87.5°	13.2	14.2	15.1	15.1	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)