

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: P229547

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L835-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-2)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-23-RDP-UNV-L835-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (112)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1961.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.31 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

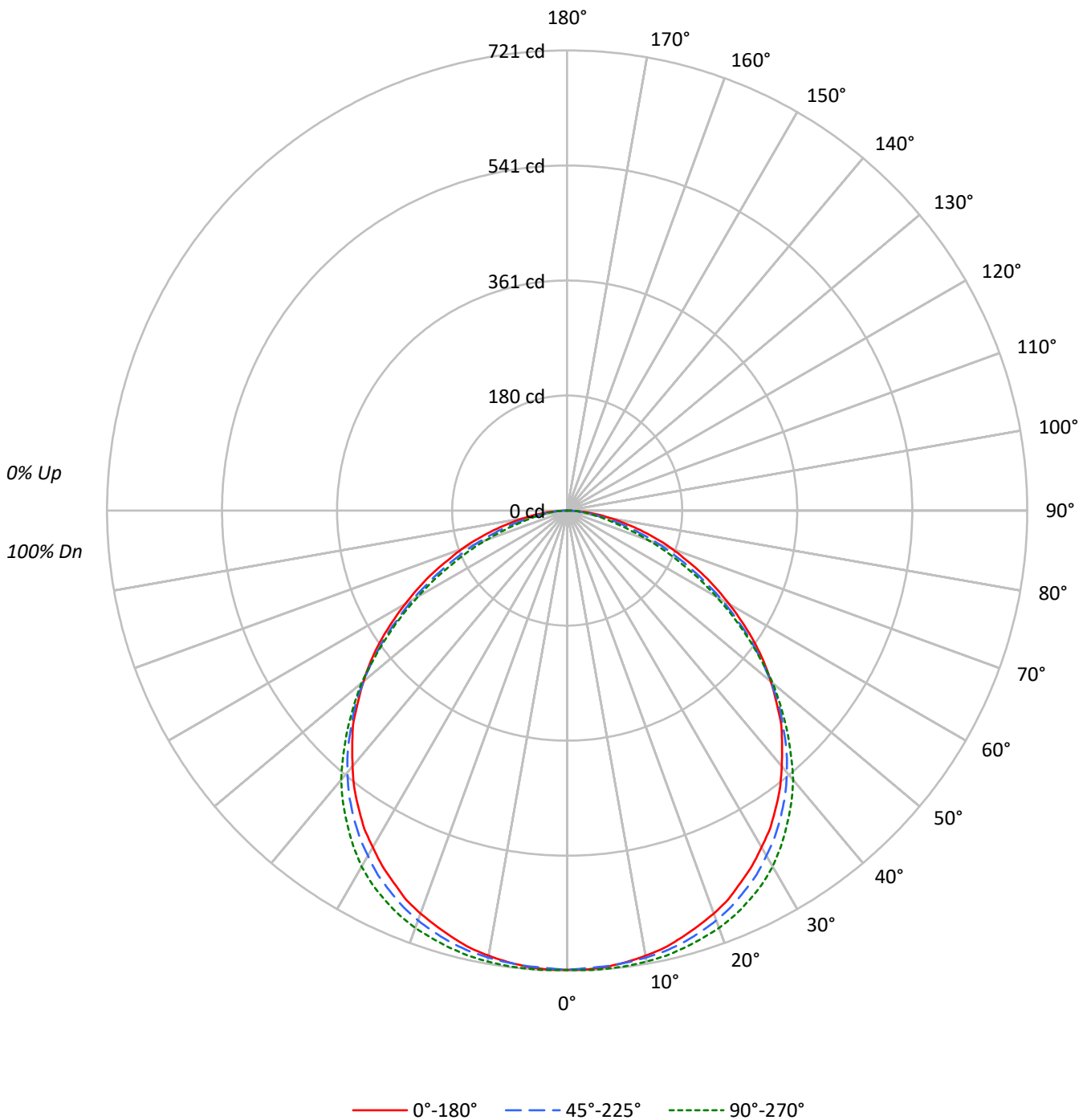
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2425	2425	2425
5°	2427	2424	2437
10°	2423	2434	2455
15°	2416	2445	2474
20°	2410	2451	2495
25°	2391	2445	2506
30°	2370	2430	2506
35°	2343	2403	2471
40°	2301	2356	2424
45°	2262	2281	2321
50°	2184	2184	2206
55°	2101	2053	2023
60°	1979	1888	1818
65°	1855	1698	1583
70°	1721	1498	1324
75°	1548	1265	1049
80°	1345	984	883
85°	1160	839	839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	3.5
10°-20°	198.0	10.1
20°-30°	303.7	15.5
30°-40°	365.7	18.6
40°-50°	369.5	18.8
50°-60°	311.8	15.9
60°-70°	212.0	10.8
70°-80°	105.1	5.4
80°-90°	26.8	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°	570.1	29.1
0°-40°	935.8	47.7
0°-60°	1617.1	82.5
0°-90°	1961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	718	718	716	720	721	68
15°	693	696	701	707	709	196
25°	643	648	658	671	674	297
35°	570	574	584	598	601	356
45°	475	472	479	487	487	364
55°	358	350	350	346	344	319
65°	233	221	213	203	198	230
75°	119	110	97	85	81	127
85°	30	23	22	22	22	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.6	719.6	719.6	719.6	719.6
2.5°	719.6	719.6	717.5	720.6	720.6
5°	717.5	717.5	716.5	719.6	720.6
7.5°	713.4	714.4	714.4	718.6	719.6
10°	708.2	709.2	711.3	716.5	717.5
12.5°	702.0	704.1	707.2	712.4	714.4
15°	692.7	695.8	701.0	707.2	709.2
17.5°	682.4	686.5	692.7	701.0	703.0
20°	672.0	675.1	683.4	692.7	695.8
22.5°	659.6	663.8	672.0	682.4	686.5
25°	643.1	648.3	657.6	671.0	674.1
27.5°	627.6	632.7	643.1	656.5	660.7
30°	609.0	615.2	624.5	638.9	644.1
32.5°	591.4	594.5	605.9	619.3	623.4
35°	569.7	573.8	584.1	597.6	600.7
37.5°	548.0	551.1	561.4	573.8	576.9
40°	523.1	526.3	535.6	548.0	551.1
42.5°	498.3	500.4	508.7	519.0	519.0
45°	474.6	471.5	478.7	487.0	487.0
47.5°	444.6	444.6	449.7	453.9	453.9
50°	416.7	414.6	416.7	418.7	420.8
52.5°	387.7	383.6	382.5	382.5	381.5
55°	357.7	350.5	349.5	346.4	344.3
57.5°	324.6	319.5	313.3	309.1	307.1
60°	293.6	284.3	280.2	272.9	269.8
62.5°	262.6	254.3	245.0	237.8	234.7
65°	232.6	221.3	213.0	202.6	198.5
67.5°	201.6	191.3	180.9	171.6	167.5
70°	174.7	162.3	152.0	138.5	134.4
72.5°	146.8	135.4	123.0	110.6	105.5
75°	118.9	109.6	97.2	84.8	80.6
77.5°	93.1	84.8	72.4	62.0	61.0
80°	69.3	62.0	50.7	46.5	45.5
82.5°	49.6	41.4	34.1	33.1	33.1
85°	30.0	22.7	21.7	21.7	21.7
87.5°	11.4	10.3	11.4	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)