

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: P295768

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-23-RDP-UNV-L92765-W2A1-U-2700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1573.0 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

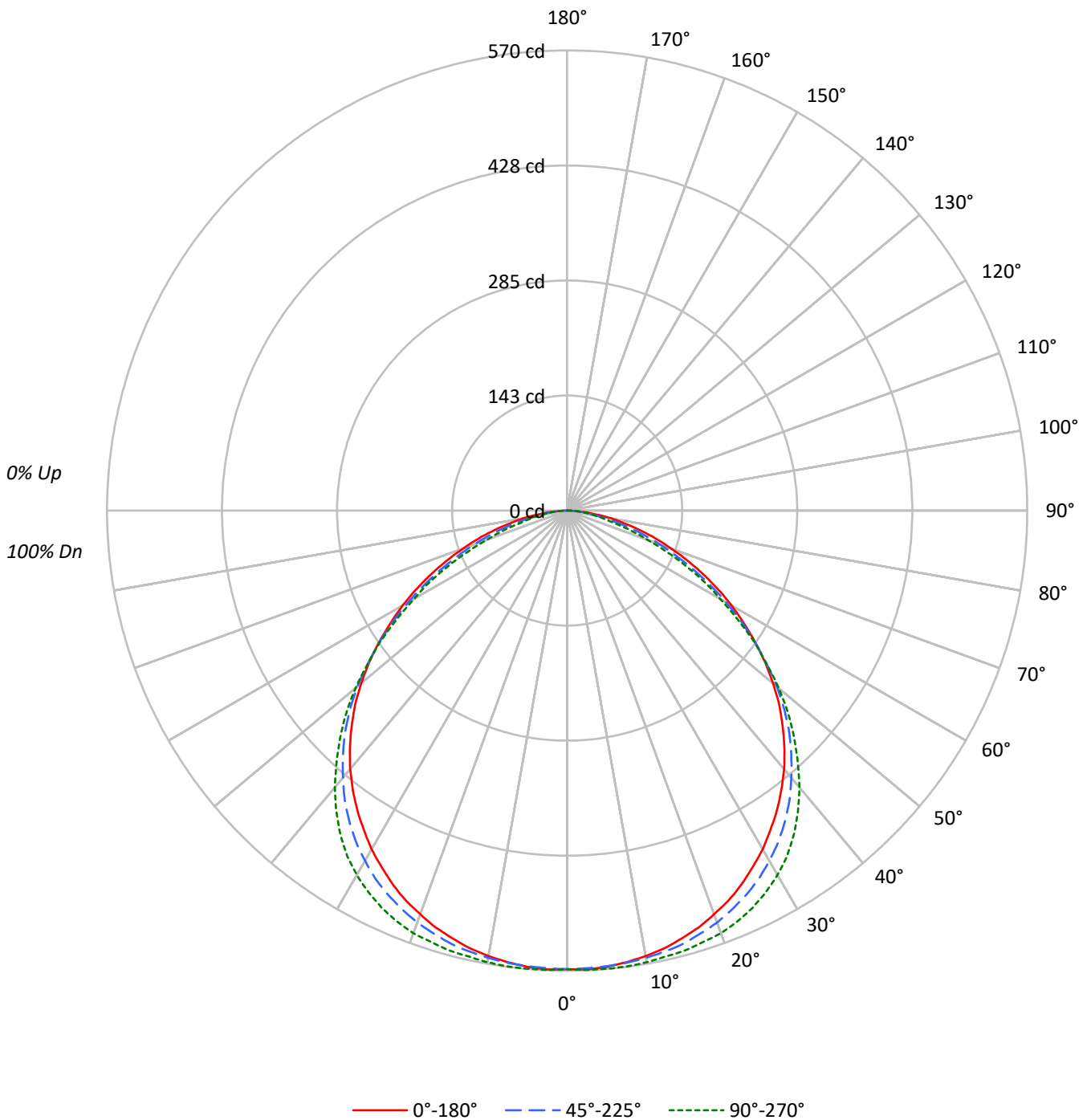
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1529	1529	1529
5°	1532	1530	1539
10°	1531	1537	1552
15°	1528	1548	1572
20°	1524	1555	1595
25°	1517	1559	1613
30°	1505	1556	1620
35°	1489	1545	1609
40°	1468	1518	1573
45°	1436	1481	1513
50°	1394	1420	1433
55°	1334	1331	1323
60°	1266	1224	1178
65°	1179	1095	1035
70°	1076	959	836
75°	967	796	626
80°	860	581	545
85°	676	482	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	3.4
10°-20°	157.2	10.0
20°-30°	242.5	15.4
30°-40°	294.2	18.7
40°-50°	298.7	19.0
50°-60°	252.6	16.1
60°-70°	170.9	10.9
70°-80°	82.7	5.3
80°-90°	20.2	1.3
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°	453.8	28.8
0°-40°	747.9	47.5
0°-60°	1299.2	82.6
0°-90°	1573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	567	567	566	569	570	54
15°	548	552	556	562	564	155
25°	511	515	525	538	543	235
35°	453	458	470	485	490	283
45°	377	378	389	397	398	291
55°	284	282	284	284	282	254
65°	185	177	172	165	162	184
75°	93	86	77	66	60	99
85°	22	17	16	16	16	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.1	568.1	568.1	568.1	568.1
2.5°	568.8	568.8	567.3	568.8	569.6
5°	567.3	567.3	566.5	568.8	569.6
7.5°	564.2	564.9	564.9	568.1	569.6
10°	560.3	561.8	562.6	567.3	568.1
12.5°	555.6	557.1	559.5	564.9	565.7
15°	548.5	551.7	555.6	561.8	564.2
17.5°	541.5	544.6	549.3	557.9	560.3
20°	532.1	536.0	543.1	553.2	557.1
22.5°	522.7	525.9	534.5	547.0	550.9
25°	511.0	514.9	525.1	538.4	543.1
27.5°	497.7	503.2	514.2	528.2	532.9
30°	484.5	489.1	500.9	516.5	521.2
32.5°	468.8	473.5	486.8	501.6	507.1
35°	453.2	457.9	470.4	485.2	489.9
37.5°	436.0	439.1	452.4	464.9	469.6
40°	418.0	420.4	432.1	444.6	447.7
42.5°	398.5	400.1	411.0	421.9	422.7
45°	377.4	378.2	389.1	396.9	397.7
47.5°	356.3	355.5	364.9	370.4	371.2
50°	332.9	332.9	339.1	342.2	342.2
52.5°	309.4	307.9	311.0	313.3	311.0
55°	284.4	282.1	283.6	283.6	282.1
57.5°	259.4	254.7	255.5	254.0	250.0
60°	235.2	229.7	227.4	221.9	218.8
62.5°	210.2	203.9	199.3	193.0	192.2
65°	185.2	177.4	171.9	164.9	162.5
67.5°	161.0	153.9	146.1	138.3	133.6
70°	136.7	128.9	121.9	111.7	106.3
72.5°	114.9	107.8	99.2	87.5	83.6
75°	93.0	86.0	76.6	66.4	60.2
77.5°	71.9	66.4	56.3	47.7	46.9
80°	55.5	49.2	37.5	35.2	35.2
82.5°	35.9	32.0	26.6	25.0	25.0
85°	21.9	17.2	15.6	15.6	15.6
87.5°	8.6	7.8	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)