

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: P295769

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295769
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-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1636.0 lumens
Efficiency: N/A
Efficacy: 80.0 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

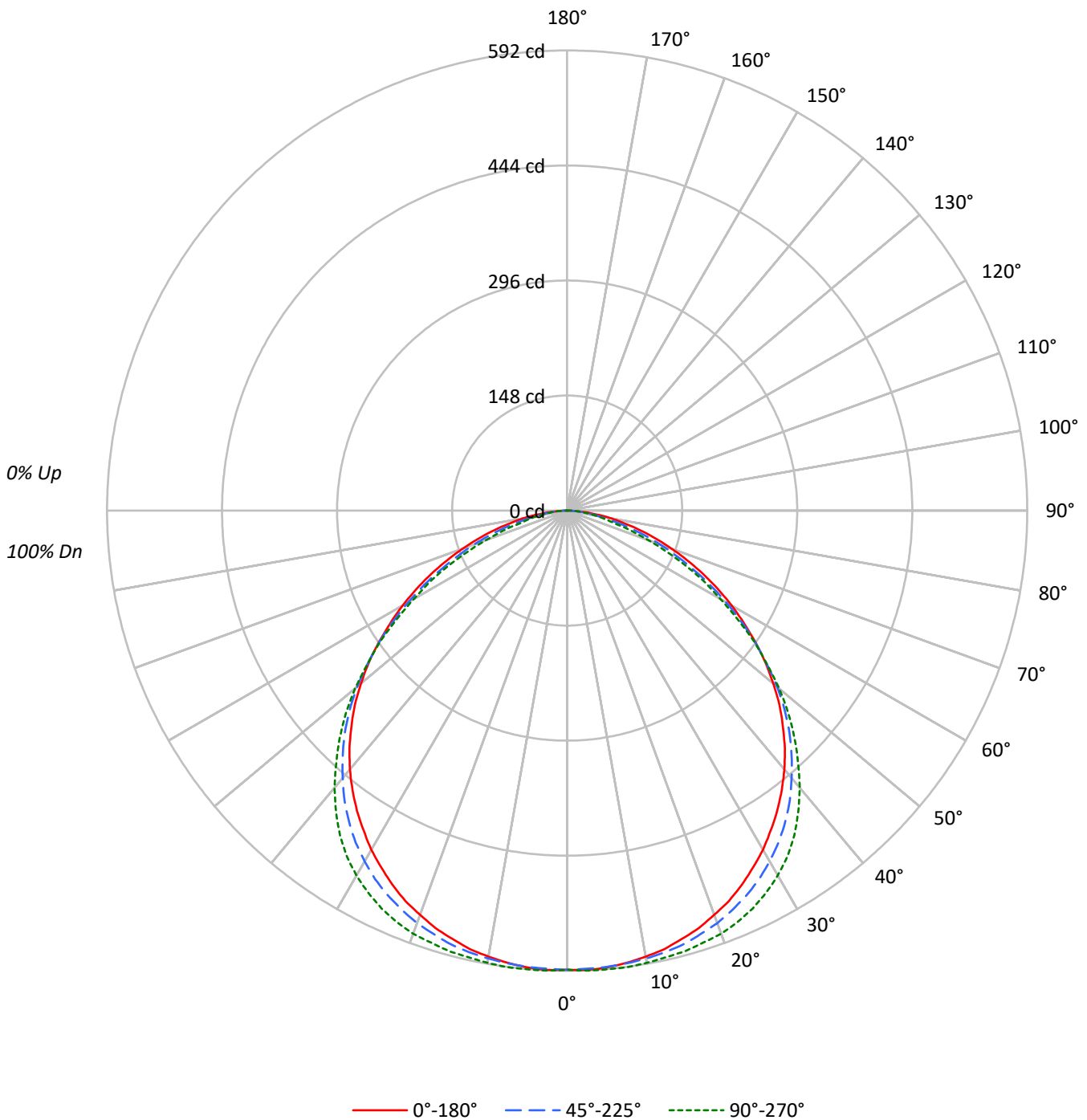
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1590	1590	1590
5°	1594	1592	1600
10°	1592	1599	1614
15°	1589	1610	1635
20°	1585	1617	1659
25°	1578	1621	1677
30°	1566	1619	1684
35°	1549	1607	1674
40°	1527	1579	1636
45°	1494	1540	1574
50°	1449	1477	1490
55°	1388	1384	1377
60°	1316	1273	1225
65°	1226	1138	1076
70°	1119	998	869
75°	1005	828	651
80°	894	604	567
85°	704	503	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	3.4
10°-20°	163.5	10.0
20°-30°	252.3	15.4
30°-40°	305.9	18.7
40°-50°	310.6	19.0
50°-60°	262.8	16.1
60°-70°	177.8	10.9
70°-80°	86.0	5.3
80°-90°	21.0	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°	471.9	28.8
0°-40°	777.9	47.5
0°-60°	1351.3	82.6
0°-90°	1636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	591	591	591	591	591	
5°	590	590	589	592	592	56
15°	570	574	578	584	587	161
25°	532	536	546	560	565	245
35°	471	476	489	505	510	295
45°	392	393	405	413	414	303
55°	296	293	295	295	293	264
65°	193	184	179	172	169	191
75°	97	89	80	69	63	103
85°	23	18	16	16	16	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.8	590.8	590.8	590.8	590.8
2.5°	591.6	591.6	590.0	591.6	592.4
5°	590.0	590.0	589.2	591.6	592.4
7.5°	586.8	587.6	587.6	590.8	592.4
10°	582.7	584.3	585.1	590.0	590.8
12.5°	577.8	579.4	581.9	587.6	588.4
15°	570.5	573.8	577.8	584.3	586.8
17.5°	563.2	566.4	571.3	580.3	582.7
20°	553.4	557.5	564.8	575.4	579.4
22.5°	543.7	546.9	555.9	568.9	572.9
25°	531.5	535.6	546.1	559.9	564.8
27.5°	517.7	523.4	534.7	549.4	554.2
30°	503.9	508.7	520.9	537.2	542.1
32.5°	487.6	492.5	506.3	521.7	527.4
35°	471.4	476.2	489.2	504.7	509.6
37.5°	453.5	456.7	470.5	483.5	488.4
40°	434.8	437.2	449.4	462.4	465.7
42.5°	414.5	416.1	427.5	438.8	439.7
45°	392.5	393.3	404.7	412.8	413.7
47.5°	370.6	369.8	379.5	385.2	386.0
50°	346.2	346.2	352.7	356.0	356.0
52.5°	321.8	320.2	323.4	325.9	323.4
55°	295.8	293.4	295.0	295.0	293.4
57.5°	269.8	264.9	265.7	264.1	260.1
60°	244.6	238.9	236.5	230.8	227.6
62.5°	218.6	212.1	207.2	200.7	199.9
65°	192.6	184.5	178.8	171.5	169.0
67.5°	167.4	160.1	152.0	143.8	139.0
70°	142.2	134.1	126.8	116.2	110.5
72.5°	119.5	112.2	103.2	91.0	87.0
75°	96.7	89.4	79.6	69.1	62.6
77.5°	74.8	69.1	58.5	49.6	48.8
80°	57.7	51.2	39.0	36.6	36.6
82.5°	37.4	33.3	27.6	26.0	26.0
85°	22.8	17.9	16.3	16.3	16.3
87.5°	8.9	8.1	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)