

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: P295745

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295745  
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-L93050-W2A1-U-4000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1843.0 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

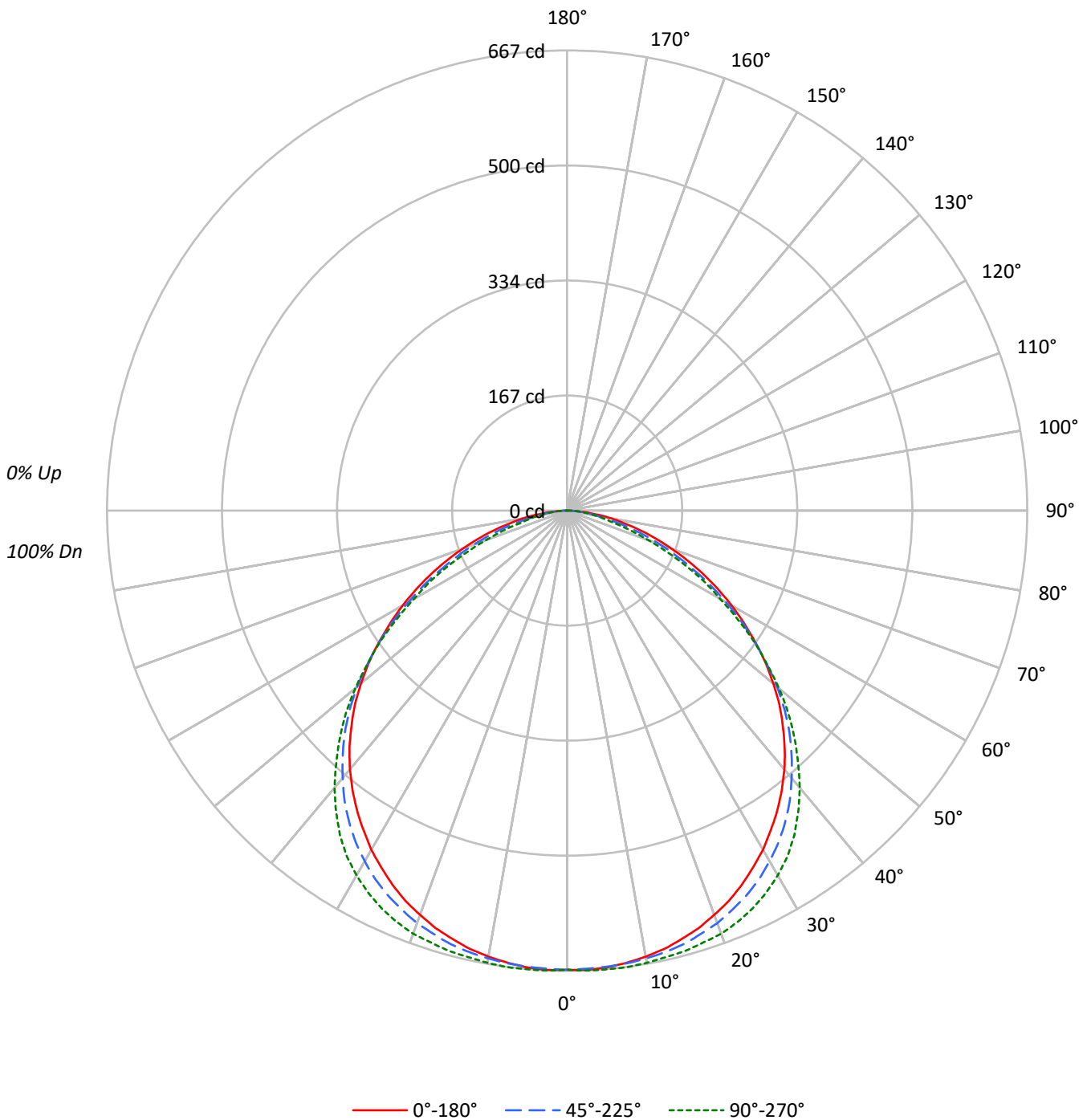
Input Watts (W): 21.204  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1791	1791	1791
5°	1796	1793	1803
10°	1794	1801	1819
15°	1791	1813	1841
20°	1786	1822	1869
25°	1778	1827	1889
30°	1764	1823	1897
35°	1744	1810	1886
40°	1721	1779	1843
45°	1683	1735	1773
50°	1633	1663	1679
55°	1563	1559	1551
60°	1483	1434	1379
65°	1382	1282	1212
70°	1260	1124	980
75°	1132	933	733
80°	1007	680	638
85°	790	565	565



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.4	3.4
10°-20°	184.1	10.0
20°-30°	284.2	15.4
30°-40°	344.7	18.7
40°-50°	349.9	19.0
50°-60°	296.0	16.1
60°-70°	200.3	10.9
70°-80°	96.8	5.3
80°-90°	23.6	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°	531.7	28.8
0°-40°	876.3	47.5
0°-60°	1522.3	82.6
0°-90°	1843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1843.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	665	665	664	666	667	63
15°	643	646	651	658	661	182
25°	599	603	615	631	636	276
35°	531	536	551	568	574	332
45°	442	443	456	465	466	341
55°	333	330	332	332	330	298
65°	217	208	201	193	190	215
75°	109	101	90	78	70	116
85°	26	20	18	18	18	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	665.6	665.6	665.6	665.6	665.6
2.5°	666.5	666.5	664.7	666.5	667.4
5°	664.7	664.7	663.7	666.5	667.4
7.5°	661.0	661.9	661.9	665.6	667.4
10°	656.4	658.3	659.2	664.7	665.6
12.5°	650.9	652.8	655.5	661.9	662.8
15°	642.7	646.3	650.9	658.3	661.0
17.5°	634.4	638.1	643.6	653.7	656.4
20°	623.5	628.0	636.3	648.2	652.8
22.5°	612.5	616.1	626.2	640.9	645.4
25°	598.7	603.3	615.2	630.8	636.3
27.5°	583.2	589.6	602.4	618.9	624.4
30°	567.6	573.1	586.8	605.2	610.6
32.5°	549.3	554.8	570.4	587.8	594.2
35°	531.0	536.5	551.1	568.5	574.0
37.5°	510.9	514.5	530.1	544.7	550.2
40°	489.8	492.5	506.3	520.9	524.6
42.5°	466.9	468.7	481.6	494.4	495.3
45°	442.2	443.1	455.9	465.1	466.0
47.5°	417.5	416.6	427.5	434.0	434.9
50°	390.0	390.0	397.3	401.0	401.0
52.5°	362.5	360.7	364.4	367.1	364.4
55°	333.2	330.5	332.3	332.3	330.5
57.5°	303.9	298.5	299.4	297.5	293.0
60°	275.6	269.2	266.4	260.0	256.3
62.5°	246.3	238.9	233.5	226.1	225.2
65°	217.0	207.8	201.4	193.2	190.4
67.5°	188.6	180.4	171.2	162.0	156.6
70°	160.2	151.1	142.8	130.9	124.5
72.5°	134.6	126.3	116.3	102.5	98.0
75°	108.9	100.7	89.7	77.8	70.5
77.5°	84.2	77.8	65.9	55.8	54.9
80°	65.0	57.7	43.9	41.2	41.2
82.5°	42.1	37.5	31.1	29.3	29.3
85°	25.6	20.1	18.3	18.3	18.3
87.5°	10.1	9.2	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)