

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: P295750

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295750  
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-LD5-26-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: 2081.0 lumens  
Efficiency: N/A  
Efficacy: 85.1 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

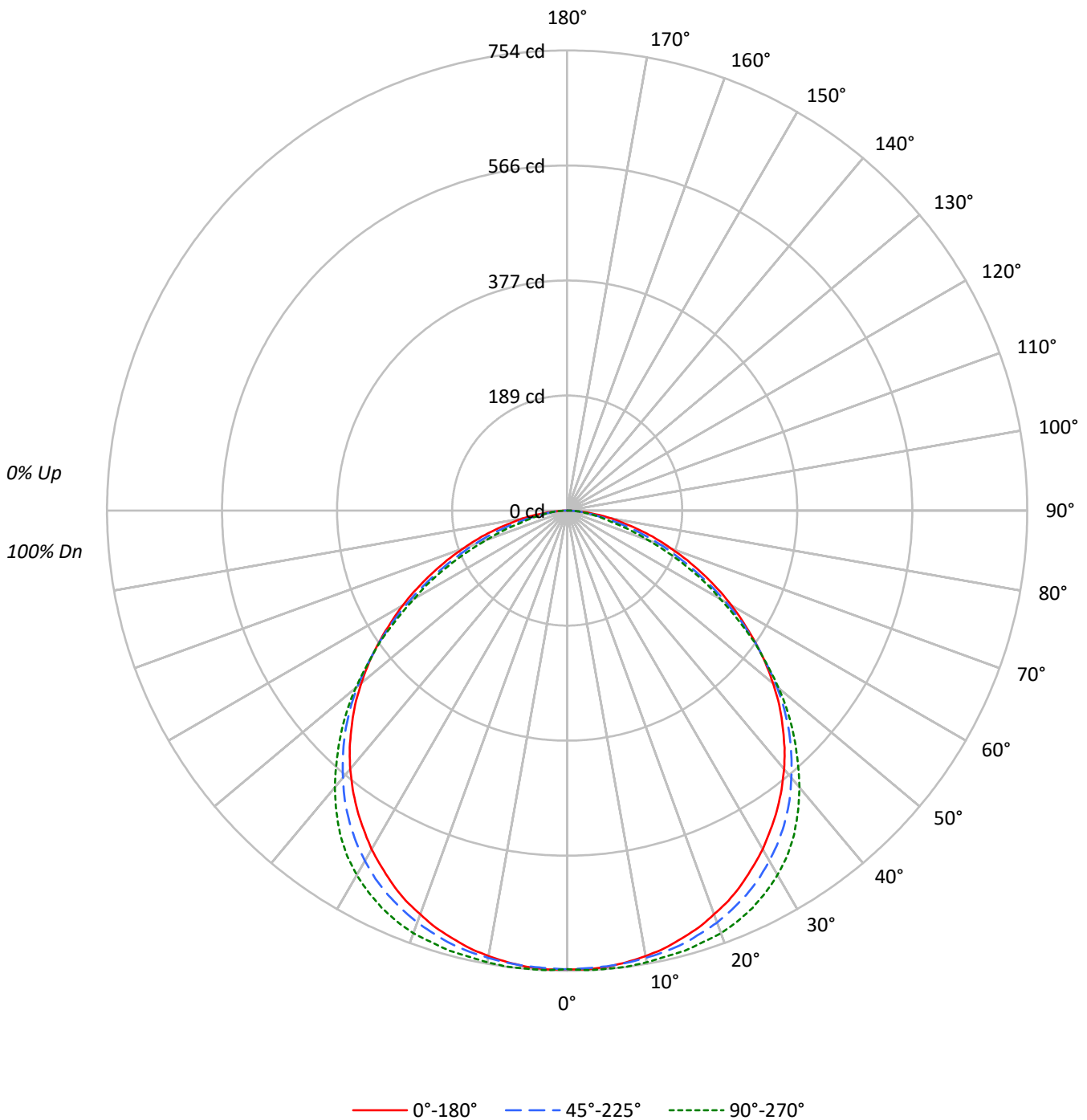
Input Watts (W): 24.459  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	30	56	44	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2022	2022	2022
5°	2027	2025	2036
10°	2025	2034	2053
15°	2022	2048	2079
20°	2016	2057	2111
25°	2007	2063	2133
30°	1991	2059	2142
35°	1970	2044	2129
40°	1943	2008	2081
45°	1900	1959	2003
50°	1844	1878	1896
55°	1765	1760	1751
60°	1675	1619	1558
65°	1560	1448	1369
70°	1423	1269	1106
75°	1279	1053	828
80°	1137	769	721
85°	892	639	639



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.5	3.4
10°-20°	207.9	10.0
20°-30°	320.9	15.4
30°-40°	389.2	18.7
40°-50°	395.1	19.0
50°-60°	334.2	16.1
60°-70°	226.1	10.9
70°-80°	109.3	5.3
80°-90°	26.7	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°	600.3	28.8
0°-40°	989.5	47.5
0°-60°	1718.8	82.6
0°-90°	2081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2081.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	750	750	750	753	754	71
15°	726	730	735	743	746	205
25°	676	681	695	712	718	311
35°	600	606	622	642	648	375
45°	499	500	515	525	526	385
55°	376	373	375	375	373	336
65°	245	235	227	218	215	243
75°	123	114	101	88	80	131
85°	29	23	21	21	21	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	751.5	751.5	751.5	751.5	751.5
2.5°	752.6	752.6	750.5	752.6	753.6
5°	750.5	750.5	749.5	752.6	753.6
7.5°	746.4	747.4	747.4	751.5	753.6
10°	741.2	743.3	744.3	750.5	751.5
12.5°	735.0	737.1	740.2	747.4	748.4
15°	725.7	729.8	735.0	743.3	746.4
17.5°	716.4	720.5	726.7	738.1	741.2
20°	704.0	709.1	718.4	731.9	737.1
22.5°	691.6	695.7	707.1	723.6	728.8
25°	676.1	681.2	694.7	712.2	718.4
27.5°	658.5	665.7	680.2	698.8	705.0
30°	640.9	647.1	662.6	683.3	689.5
32.5°	620.2	626.4	644.0	663.7	670.9
35°	599.6	605.8	622.3	641.9	648.2
37.5°	576.8	581.0	598.5	615.1	621.3
40°	553.0	556.1	571.7	588.2	592.3
42.5°	527.2	529.3	543.7	558.2	559.3
45°	499.3	500.3	514.8	525.1	526.2
47.5°	471.4	470.3	482.8	490.0	491.0
50°	440.4	440.4	448.6	452.8	452.8
52.5°	409.4	407.3	411.4	414.5	411.4
55°	376.3	373.2	375.2	375.2	373.2
57.5°	343.2	337.0	338.0	336.0	330.8
60°	311.2	303.9	300.8	293.6	289.4
62.5°	278.1	269.8	263.6	255.3	254.3
65°	245.0	234.7	227.4	218.1	215.0
67.5°	212.9	203.6	193.3	183.0	176.8
70°	180.9	170.6	161.3	147.8	140.6
72.5°	152.0	142.7	131.3	115.8	110.6
75°	123.0	113.7	101.3	87.9	79.6
77.5°	95.1	87.9	74.4	63.1	62.0
80°	73.4	65.1	49.6	46.5	46.5
82.5°	47.6	42.4	35.1	33.1	33.1
85°	28.9	22.7	20.7	20.7	20.7
87.5°	11.4	10.3	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)