

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: P295781

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295781
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-L92765-W2A1-U-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2054.0 lumens
Efficiency: N/A
Efficacy: 84.6 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

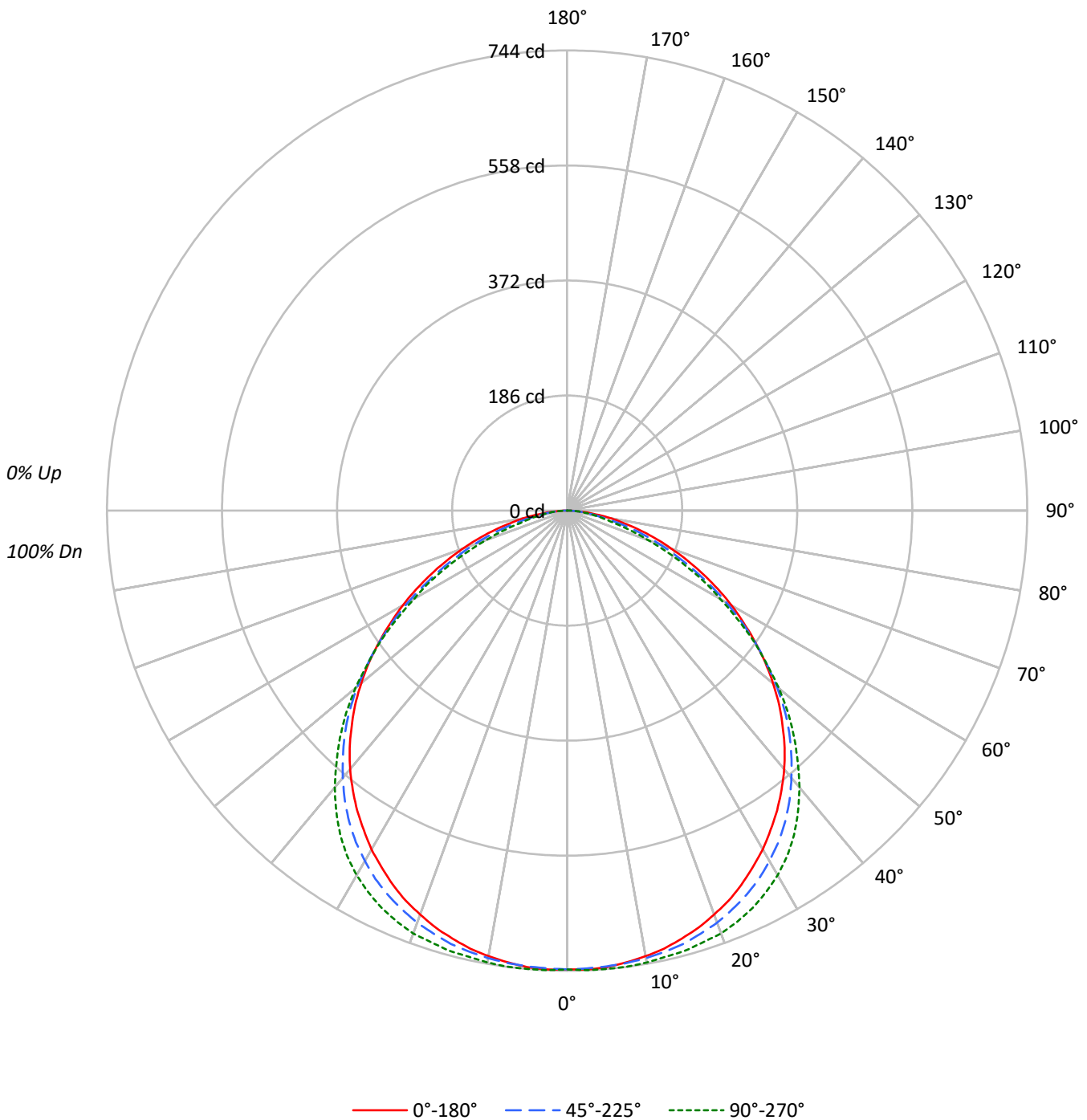
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1996	1996	1996
5°	2001	1998	2009
10°	1999	2007	2027
15°	1996	2021	2052
20°	1990	2031	2083
25°	1981	2036	2105
30°	1966	2032	2115
35°	1944	2018	2101
40°	1918	1982	2054
45°	1875	1934	1976
50°	1820	1854	1871
55°	1742	1738	1728
60°	1653	1598	1538
65°	1540	1429	1351
70°	1405	1253	1092
75°	1262	1040	817
80°	1122	759	711
85°	883	630	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	3.4
10°-20°	205.2	10.0
20°-30°	316.7	15.4
30°-40°	384.1	18.7
40°-50°	390.0	19.0
50°-60°	329.9	16.1
60°-70°	223.2	10.9
70°-80°	107.9	5.3
80°-90°	26.3	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°	592.5	28.8
0°-40°	976.6	47.5
0°-60°	1696.5	82.6
0°-90°	2054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	741	741	740	743	744	70
15°	716	720	725	734	737	202
25°	667	672	686	703	709	307
35°	592	598	614	634	640	370
45°	493	494	508	518	519	380
55°	371	368	370	370	368	332
65°	242	232	224	215	212	240
75°	121	112	100	87	79	129
85°	29	22	20	20	20	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.8	741.8	741.8	741.8	741.8
2.5°	742.8	742.8	740.8	742.8	743.8
5°	740.8	740.8	739.7	742.8	743.8
7.5°	736.7	737.7	737.7	741.8	743.8
10°	731.6	733.6	734.6	740.8	741.8
12.5°	725.4	727.5	730.6	737.7	738.7
15°	716.3	720.3	725.4	733.6	736.7
17.5°	707.1	711.2	717.3	728.5	731.6
20°	694.8	699.9	709.1	722.4	727.5
22.5°	682.6	686.7	697.9	714.2	719.3
25°	667.3	672.4	685.7	703.0	709.1
27.5°	649.9	657.1	671.4	689.7	695.9
30°	632.6	638.7	654.0	674.4	680.6
32.5°	612.2	618.3	635.7	655.0	662.2
35°	591.8	597.9	614.2	633.6	639.7
37.5°	569.3	573.4	590.8	607.1	613.2
40°	545.9	548.9	564.2	580.6	584.6
42.5°	520.4	522.4	536.7	551.0	552.0
45°	492.8	493.8	508.1	518.3	519.3
47.5°	465.3	464.2	476.5	483.6	484.7
50°	434.7	434.7	442.8	446.9	446.9
52.5°	404.0	402.0	406.1	409.1	406.1
55°	371.4	368.3	370.4	370.4	368.3
57.5°	338.7	332.6	333.6	331.6	326.5
60°	307.1	300.0	296.9	289.8	285.7
62.5°	274.5	266.3	260.2	252.0	251.0
65°	241.8	231.6	224.5	215.3	212.2
67.5°	210.2	201.0	190.8	180.6	174.5
70°	178.6	168.4	159.2	145.9	138.8
72.5°	150.0	140.8	129.6	114.3	109.2
75°	121.4	112.2	100.0	86.7	78.6
77.5°	93.9	86.7	73.5	62.2	61.2
80°	72.4	64.3	49.0	45.9	45.9
82.5°	46.9	41.8	34.7	32.7	32.7
85°	28.6	22.4	20.4	20.4	20.4
87.5°	11.2	10.2	10.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)