

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: P295708

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295708
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-L82765-W2A1-U-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2140.0 lumens
Efficiency: N/A
Efficacy: 90.6 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

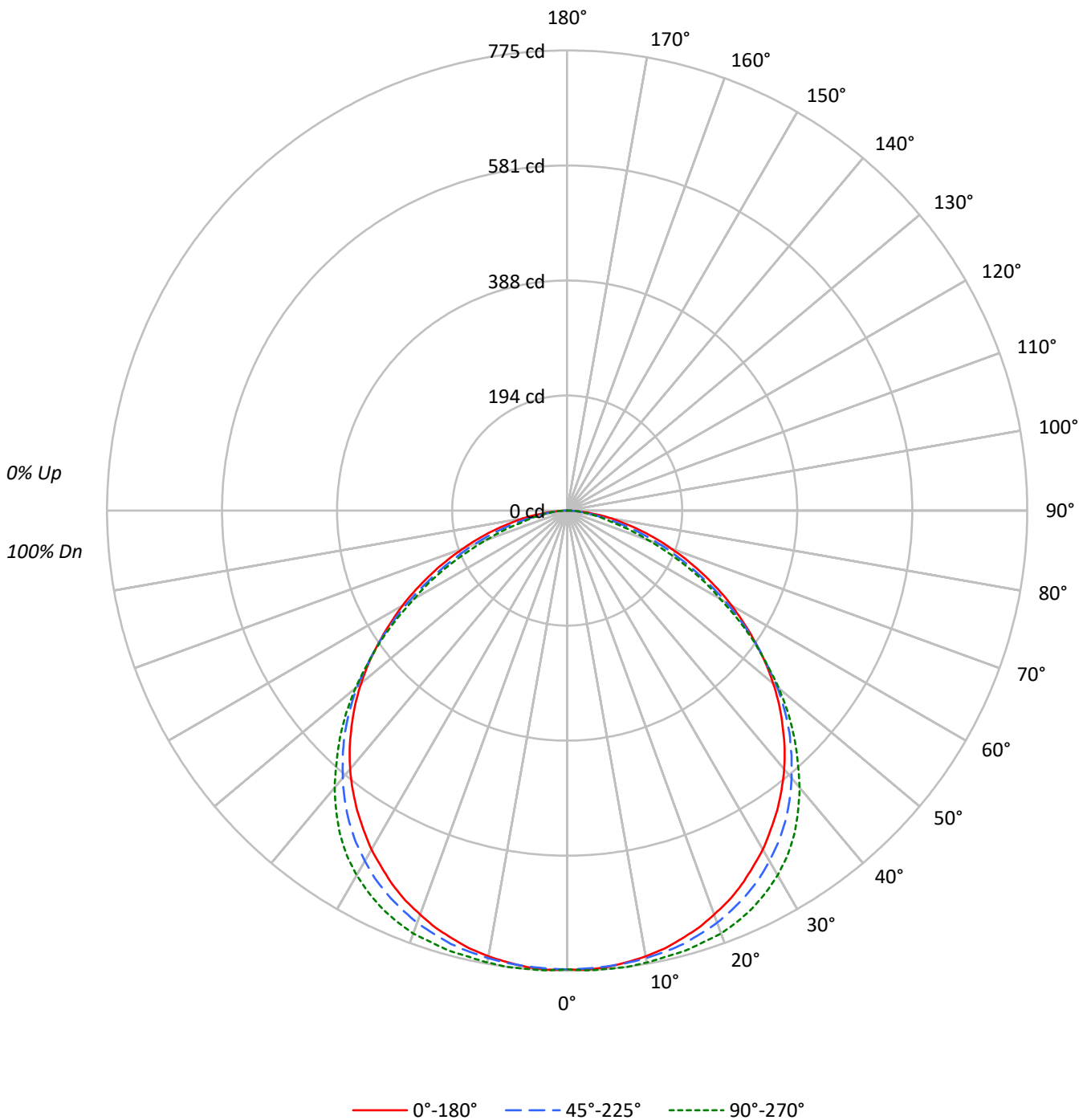
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2080	2080	2080
5°	2085	2082	2093
10°	2083	2091	2112
15°	2079	2106	2138
20°	2073	2116	2170
25°	2064	2121	2194
30°	2048	2117	2203
35°	2026	2102	2190
40°	1998	2065	2140
45°	1954	2015	2059
50°	1896	1932	1949
55°	1815	1810	1801
60°	1722	1665	1602
65°	1604	1489	1408
70°	1463	1304	1138
75°	1315	1083	852
80°	1170	790	741
85°	920	658	658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	3.4
10°-20°	213.8	10.0
20°-30°	330.0	15.4
30°-40°	400.2	18.7
40°-50°	406.3	19.0
50°-60°	343.7	16.1
60°-70°	232.6	10.9
70°-80°	112.4	5.3
80°-90°	27.4	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°	617.3	28.8
0°-40°	1017.5	47.5
0°-60°	1767.6	82.6
0°-90°	2140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	772	772	771	774	775	73
15°	746	750	756	764	768	211
25°	695	700	714	732	739	320
35°	617	623	640	660	666	385
45°	513	514	529	540	541	396
55°	387	384	386	386	384	346
65°	252	241	234	224	221	250
75°	126	117	104	90	82	135
85°	30	23	21	21	21	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.8	772.8	772.8	772.8	772.8
2.5°	773.9	773.9	771.8	773.9	775.0
5°	771.8	771.8	770.7	773.9	775.0
7.5°	767.5	768.6	768.6	772.8	775.0
10°	762.2	764.3	765.4	771.8	772.8
12.5°	755.8	757.9	761.1	768.6	769.6
15°	746.3	750.5	755.8	764.3	767.5
17.5°	736.7	740.9	747.3	759.0	762.2
20°	723.9	729.2	738.8	752.6	757.9
22.5°	711.2	715.4	727.1	744.1	749.4
25°	695.2	700.5	714.4	732.4	738.8
27.5°	677.2	684.6	699.5	718.6	725.0
30°	659.1	665.5	681.4	702.7	709.0
32.5°	637.8	644.2	662.3	682.5	689.9
35°	616.6	622.9	640.0	660.1	666.5
37.5°	593.2	597.4	615.5	632.5	638.9
40°	568.7	571.9	587.9	604.9	609.1
42.5°	542.2	544.3	559.2	574.0	575.1
45°	513.4	514.5	529.4	540.0	541.1
47.5°	484.7	483.7	496.4	503.9	504.9
50°	452.9	452.9	461.4	465.6	465.6
52.5°	421.0	418.8	423.1	426.3	423.1
55°	386.9	383.8	385.9	385.9	383.8
57.5°	352.9	346.6	347.6	345.5	340.2
60°	320.0	312.5	309.3	301.9	297.7
62.5°	286.0	277.5	271.1	262.6	261.5
65°	251.9	241.3	233.9	224.3	221.1
67.5°	219.0	209.4	198.8	188.2	181.8
70°	186.0	175.4	165.8	152.0	144.6
72.5°	156.3	146.7	135.0	119.1	113.7
75°	126.5	116.9	104.2	90.4	81.9
77.5°	97.8	90.4	76.5	64.8	63.8
80°	75.5	67.0	51.0	47.8	47.8
82.5°	48.9	43.6	36.1	34.0	34.0
85°	29.8	23.4	21.3	21.3	21.3
87.5°	11.7	10.6	10.6	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)