

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: P295678

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295678
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-L83050-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: 2142.0 lumens
Efficiency: N/A
Efficacy: 90.3 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

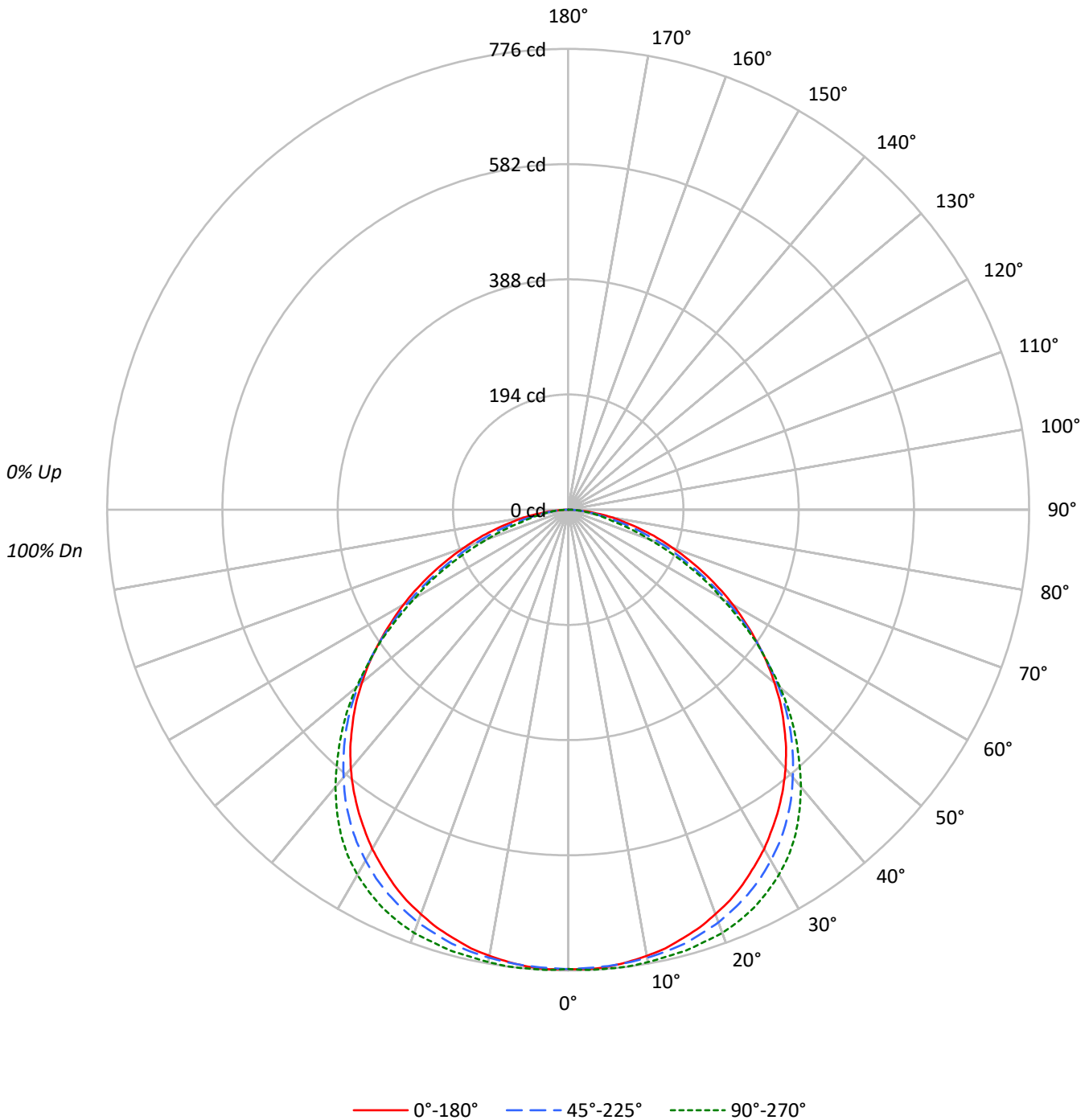
Input Watts (W): 23.715
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2082	2082	2082
5°	2087	2084	2095
10°	2085	2093	2114
15°	2081	2108	2140
20°	2075	2118	2173
25°	2066	2123	2196
30°	2050	2119	2205
35°	2027	2104	2192
40°	2000	2067	2142
45°	1956	2017	2061
50°	1898	1933	1951
55°	1817	1812	1802
60°	1724	1666	1603
65°	1606	1491	1409
70°	1465	1306	1138
75°	1316	1084	852
80°	1170	792	742
85°	920	658	658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	3.4
10°-20°	214.0	10.0
20°-30°	330.3	15.4
30°-40°	400.6	18.7
40°-50°	406.7	19.0
50°-60°	344.0	16.1
60°-70°	232.8	10.9
70°-80°	112.5	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°	617.9	28.8
0°-40°	1018.5	47.5
0°-60°	1769.2	82.6
0°-90°	2142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	772	772	771	775	776	73
15°	747	751	756	765	768	211
25°	696	701	715	733	740	321
35°	617	624	640	661	667	386
45°	514	515	530	540	542	396
55°	387	384	386	386	384	346
65°	252	242	234	224	221	250
75°	127	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°	773.6	773.6	773.6	773.6	773.6
2.5°	774.6	774.6	772.5	774.6	775.7
5°	772.5	772.5	771.4	774.6	775.7
7.5°	768.2	769.3	769.3	773.6	775.7
10°	762.9	765.0	766.1	772.5	773.6
12.5°	756.5	758.7	761.9	769.3	770.4
15°	747.0	751.2	756.5	765.0	768.2
17.5°	737.4	741.6	748.0	759.7	762.9
20°	724.6	729.9	739.5	753.3	758.7
22.5°	711.8	716.1	727.8	744.8	750.1
25°	695.9	701.2	715.0	733.1	739.5
27.5°	677.8	685.2	700.1	719.3	725.7
30°	659.7	666.1	682.0	703.3	709.7
32.5°	638.4	644.8	662.9	683.1	690.6
35°	617.1	623.5	640.5	660.8	667.2
37.5°	593.7	598.0	616.1	633.1	639.5
40°	569.3	572.5	588.4	605.4	609.7
42.5°	542.7	544.8	559.7	574.6	575.6
45°	513.9	515.0	529.9	540.5	541.6
47.5°	485.2	484.1	496.9	504.4	505.4
50°	453.3	453.3	461.8	466.0	466.0
52.5°	421.4	419.2	423.5	426.7	423.5
55°	387.3	384.1	386.2	386.2	384.1
57.5°	353.3	346.9	347.9	345.8	340.5
60°	320.3	312.8	309.6	302.2	297.9
62.5°	286.2	277.7	271.3	262.8	261.8
65°	252.2	241.5	234.1	224.5	221.3
67.5°	219.2	209.6	199.0	188.3	182.0
70°	186.2	175.6	166.0	152.2	144.7
72.5°	156.4	146.8	135.1	119.2	113.9
75°	126.6	117.0	104.3	90.4	81.9
77.5°	97.9	90.4	76.6	64.9	63.8
80°	75.5	67.0	51.1	47.9	47.9
82.5°	48.9	43.6	36.2	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)