

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: P295786

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295786
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-LD5-31-RDP-UNV-L92765-W2A1-U-2700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2074.0 lumens
Efficiency: N/A
Efficacy: 73.6 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

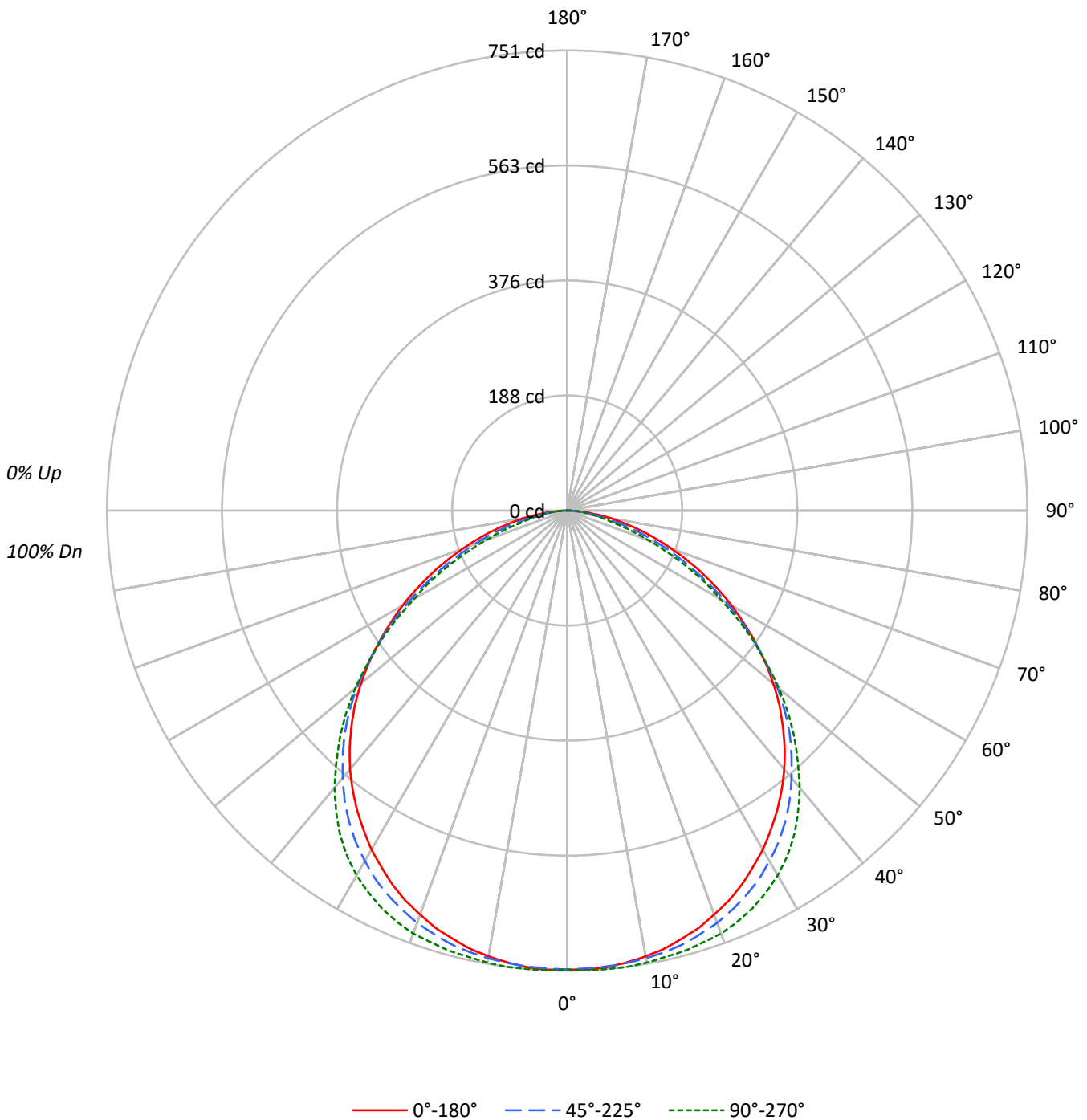
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2016	2016	2016
5°	2021	2018	2029
10°	2018	2027	2047
15°	2015	2041	2072
20°	2009	2050	2104
25°	2001	2056	2126
30°	1985	2052	2135
35°	1963	2037	2122
40°	1936	2001	2074
45°	1894	1953	1996
50°	1837	1872	1889
55°	1759	1755	1745
60°	1669	1614	1553
65°	1555	1443	1365
70°	1419	1264	1102
75°	1275	1050	824
80°	1133	767	719
85°	889	636	636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	3.4
10°-20°	207.2	10.0
20°-30°	319.8	15.4
30°-40°	387.8	18.7
40°-50°	393.8	19.0
50°-60°	333.1	16.1
60°-70°	225.4	10.9
70°-80°	109.0	5.3
80°-90°	26.6	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°	598.3	28.8
0°-40°	986.2	47.5
0°-60°	1713.0	82.6
0°-90°	2074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	748	748	747	750	751	71
15°	723	727	732	741	744	204
25°	674	679	692	710	716	310
35°	598	604	620	640	646	374
45°	498	499	513	523	524	384
55°	375	372	374	374	372	335
65°	244	234	227	217	214	242
75°	123	113	101	88	79	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°	749.0	749.0	749.0	749.0	749.0
2.5°	750.0	750.0	748.0	750.0	751.1
5°	748.0	748.0	746.9	750.0	751.1
7.5°	743.8	744.9	744.9	749.0	751.1
10°	738.7	740.8	741.8	748.0	749.0
12.5°	732.5	734.6	737.7	744.9	745.9
15°	723.2	727.4	732.5	740.8	743.8
17.5°	714.0	718.1	724.3	735.6	738.7
20°	701.6	706.8	716.0	729.4	734.6
22.5°	689.2	693.4	704.7	721.2	726.3
25°	673.8	678.9	692.3	709.8	716.0
27.5°	656.3	663.5	677.9	696.5	702.6
30°	638.8	644.9	660.4	681.0	687.2
32.5°	618.2	624.3	641.9	661.4	668.6
35°	597.5	603.7	620.2	639.8	646.0
37.5°	574.9	579.0	596.5	613.0	619.2
40°	551.2	554.3	569.7	586.2	590.3
42.5°	525.4	527.5	541.9	556.3	557.4
45°	497.6	498.6	513.1	523.4	524.4
47.5°	469.8	468.8	481.1	488.3	489.4
50°	438.9	438.9	447.1	451.3	451.3
52.5°	408.0	405.9	410.0	413.1	410.0
55°	375.0	371.9	374.0	374.0	371.9
57.5°	342.0	335.9	336.9	334.8	329.7
60°	310.1	302.9	299.8	292.6	288.5
62.5°	277.1	268.9	262.7	254.5	253.4
65°	244.2	233.9	226.7	217.4	214.3
67.5°	212.2	203.0	192.7	182.4	176.2
70°	180.3	170.0	160.7	147.3	140.1
72.5°	151.4	142.2	130.8	115.4	110.2
75°	122.6	113.3	101.0	87.6	79.3
77.5°	94.8	87.6	74.2	62.8	61.8
80°	73.1	64.9	49.5	46.4	46.4
82.5°	47.4	42.2	35.0	33.0	33.0
85°	28.8	22.7	20.6	20.6	20.6
87.5°	11.3	10.3	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)