

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: P295705

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295705
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-LD5-23-RDP-UNV-L82765-W2A1-U-5700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2093.0 lumens
Efficiency: N/A
Efficacy: 98.7 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

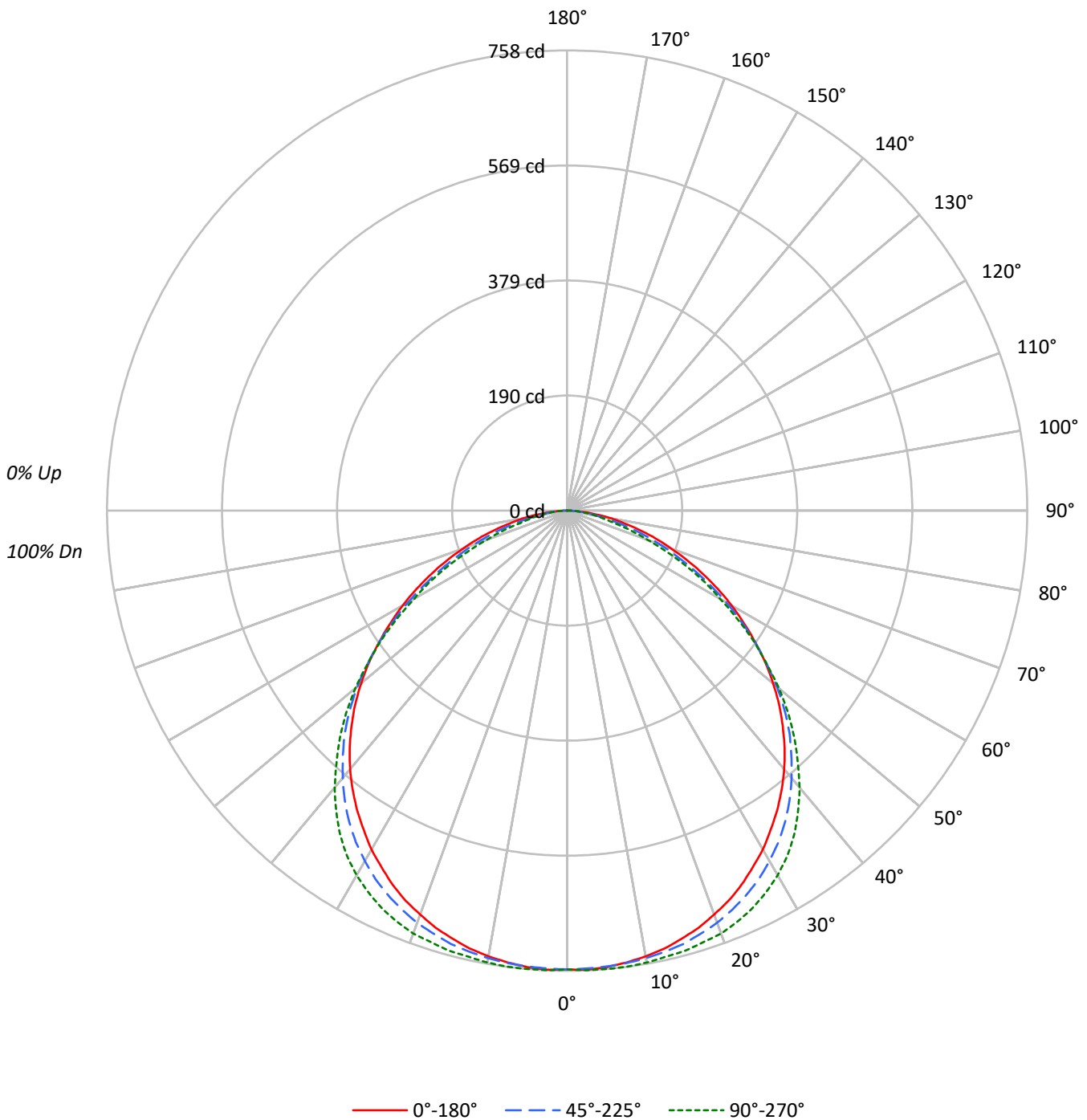
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2034	2034	2034
5°	2039	2036	2047
10°	2037	2046	2065
15°	2033	2059	2091
20°	2027	2069	2123
25°	2019	2075	2146
30°	2003	2071	2155
35°	1981	2056	2142
40°	1954	2020	2093
45°	1911	1971	2014
50°	1854	1889	1906
55°	1775	1771	1761
60°	1684	1629	1567
65°	1569	1456	1377
70°	1431	1276	1113
75°	1286	1059	833
80°	1144	773	725
85°	898	642	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	3.4
10°-20°	209.1	10.0
20°-30°	322.7	15.4
30°-40°	391.4	18.7
40°-50°	397.4	19.0
50°-60°	336.2	16.1
60°-70°	227.4	10.9
70°-80°	110.0	5.3
80°-90°	26.8	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°	603.8	28.8
0°-40°	995.2	47.5
0°-60°	1728.8	82.6
0°-90°	2093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	755	755	754	757	758	72
15°	730	734	739	748	751	206
25°	680	685	699	716	723	313
35°	603	609	626	646	652	377
45°	502	503	518	528	529	387
55°	378	375	377	377	375	338
65°	246	236	229	219	216	244
75°	124	114	102	88	80	132
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°	755.9	755.9	755.9	755.9	755.9
2.5°	756.9	756.9	754.8	756.9	757.9
5°	754.8	754.8	753.8	756.9	757.9
7.5°	750.7	751.7	751.7	755.9	757.9
10°	745.5	747.5	748.6	754.8	755.9
12.5°	739.2	741.3	744.4	751.7	752.7
15°	729.9	734.0	739.2	747.5	750.7
17.5°	720.5	724.7	730.9	742.3	745.5
20°	708.0	713.2	722.6	736.1	741.3
22.5°	695.6	699.7	711.2	727.8	733.0
25°	680.0	685.2	698.7	716.4	722.6
27.5°	662.3	669.6	684.1	702.8	709.1
30°	644.6	650.8	666.4	687.2	693.5
32.5°	623.8	630.1	647.7	667.5	674.8
35°	603.0	609.3	625.9	645.7	651.9
37.5°	580.2	584.3	602.0	618.6	624.9
40°	556.2	559.4	575.0	591.6	595.7
42.5°	530.2	532.3	546.9	561.4	562.5
45°	502.2	503.2	517.8	528.2	529.2
47.5°	474.1	473.1	485.5	492.8	493.9
50°	442.9	442.9	451.2	455.4	455.4
52.5°	411.7	409.6	413.8	416.9	413.8
55°	378.4	375.3	377.4	377.4	375.3
57.5°	345.2	338.9	340.0	337.9	332.7
60°	312.9	305.7	302.6	295.3	291.1
62.5°	279.7	271.4	265.1	256.8	255.8
65°	246.4	236.0	228.7	219.4	216.3
67.5°	214.2	204.8	194.4	184.0	177.8
70°	181.9	171.5	162.2	148.7	141.4
72.5°	152.8	143.5	132.0	116.4	111.2
75°	123.7	114.4	101.9	88.4	80.1
77.5°	95.7	88.4	74.9	63.4	62.4
80°	73.8	65.5	49.9	46.8	46.8
82.5°	47.8	42.6	35.3	33.3	33.3
85°	29.1	22.9	20.8	20.8	20.8
87.5°	11.4	10.4	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)