

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: P295784

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295784
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-5700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2137.0 lumens
Efficiency: N/A
Efficacy: 87.0 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

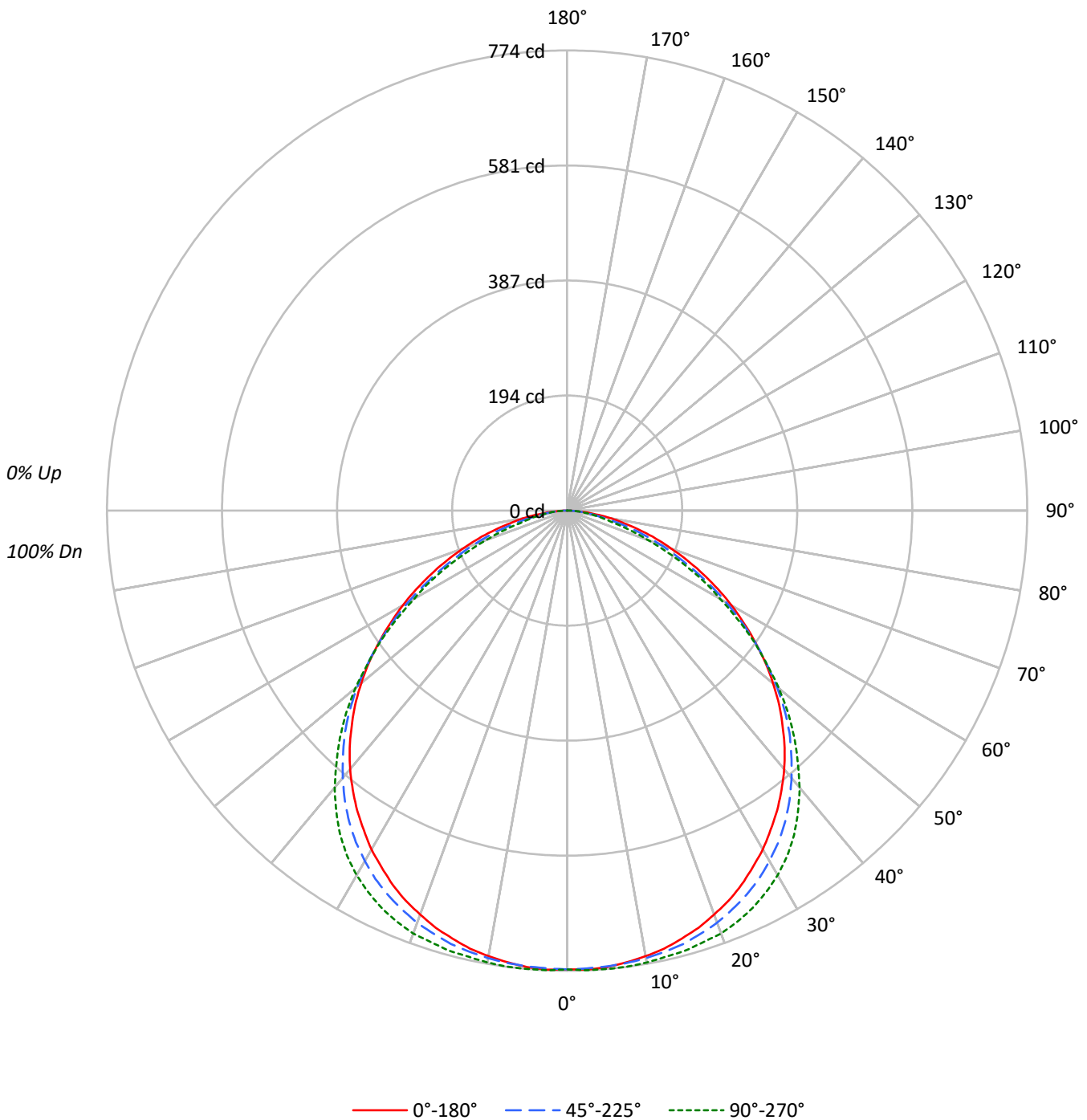
Input Watts (W): 24.552
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2077	2077	2077
5°	2082	2079	2091
10°	2080	2088	2109
15°	2076	2103	2135
20°	2070	2113	2168
25°	2061	2118	2191
30°	2045	2115	2200
35°	2023	2099	2187
40°	1995	2062	2137
45°	1951	2012	2056
50°	1893	1929	1947
55°	1813	1808	1798
60°	1720	1662	1600
65°	1602	1487	1406
70°	1462	1303	1136
75°	1313	1081	849
80°	1168	790	741
85°	917	655	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	3.4
10°-20°	213.5	10.0
20°-30°	329.5	15.4
30°-40°	399.6	18.7
40°-50°	405.7	19.0
50°-60°	343.2	16.1
60°-70°	232.2	10.9
70°-80°	112.3	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°	616.5	28.8
0°-40°	1016.1	47.5
0°-60°	1765.1	82.6
0°-90°	2137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	771	771	770	773	774	73
15°	745	750	755	763	766	210
25°	694	700	713	731	738	320
35°	616	622	639	659	666	385
45°	513	514	529	539	540	395
55°	386	383	385	385	383	345
65°	252	241	234	224	221	249
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°	771.7	771.7	771.7	771.7	771.7
2.5°	772.8	772.8	770.7	772.8	773.9
5°	770.7	770.7	769.6	772.8	773.9
7.5°	766.4	767.5	767.5	771.7	773.9
10°	761.1	763.3	764.3	770.7	771.7
12.5°	754.8	756.9	760.1	767.5	768.6
15°	745.2	749.5	754.8	763.3	766.4
17.5°	735.7	739.9	746.3	757.9	761.1
20°	722.9	728.2	737.8	751.6	756.9
22.5°	710.2	714.4	726.1	743.1	748.4
25°	694.3	699.6	713.4	731.4	737.8
27.5°	676.2	683.6	698.5	717.6	724.0
30°	658.2	664.5	680.5	701.7	708.1
32.5°	636.9	643.3	661.3	681.5	688.9
35°	615.7	622.1	639.1	659.2	665.6
37.5°	592.3	596.6	614.6	631.6	638.0
40°	567.9	571.1	587.0	604.0	608.3
42.5°	541.4	543.5	558.4	573.2	574.3
45°	512.7	513.8	528.7	539.3	540.3
47.5°	484.1	483.0	495.7	503.2	504.2
50°	452.2	452.2	460.7	465.0	465.0
52.5°	420.4	418.3	422.5	425.7	422.5
55°	386.4	383.2	385.3	385.3	383.2
57.5°	352.4	346.1	347.1	345.0	339.7
60°	319.5	312.1	308.9	301.5	297.2
62.5°	285.6	277.1	270.7	262.2	261.1
65°	251.6	241.0	233.5	224.0	220.8
67.5°	218.7	209.1	198.5	187.9	181.5
70°	185.8	175.2	165.6	151.8	144.4
72.5°	156.0	146.5	134.8	118.9	113.6
75°	126.3	116.8	104.0	90.2	81.7
77.5°	97.7	90.2	76.4	64.8	63.7
80°	75.4	66.9	51.0	47.8	47.8
82.5°	48.8	43.5	36.1	34.0	34.0
85°	29.7	23.4	21.2	21.2	21.2
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)