

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: P295782

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295782
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-5000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2095.0 lumens
Efficiency: N/A
Efficacy: 86.0 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

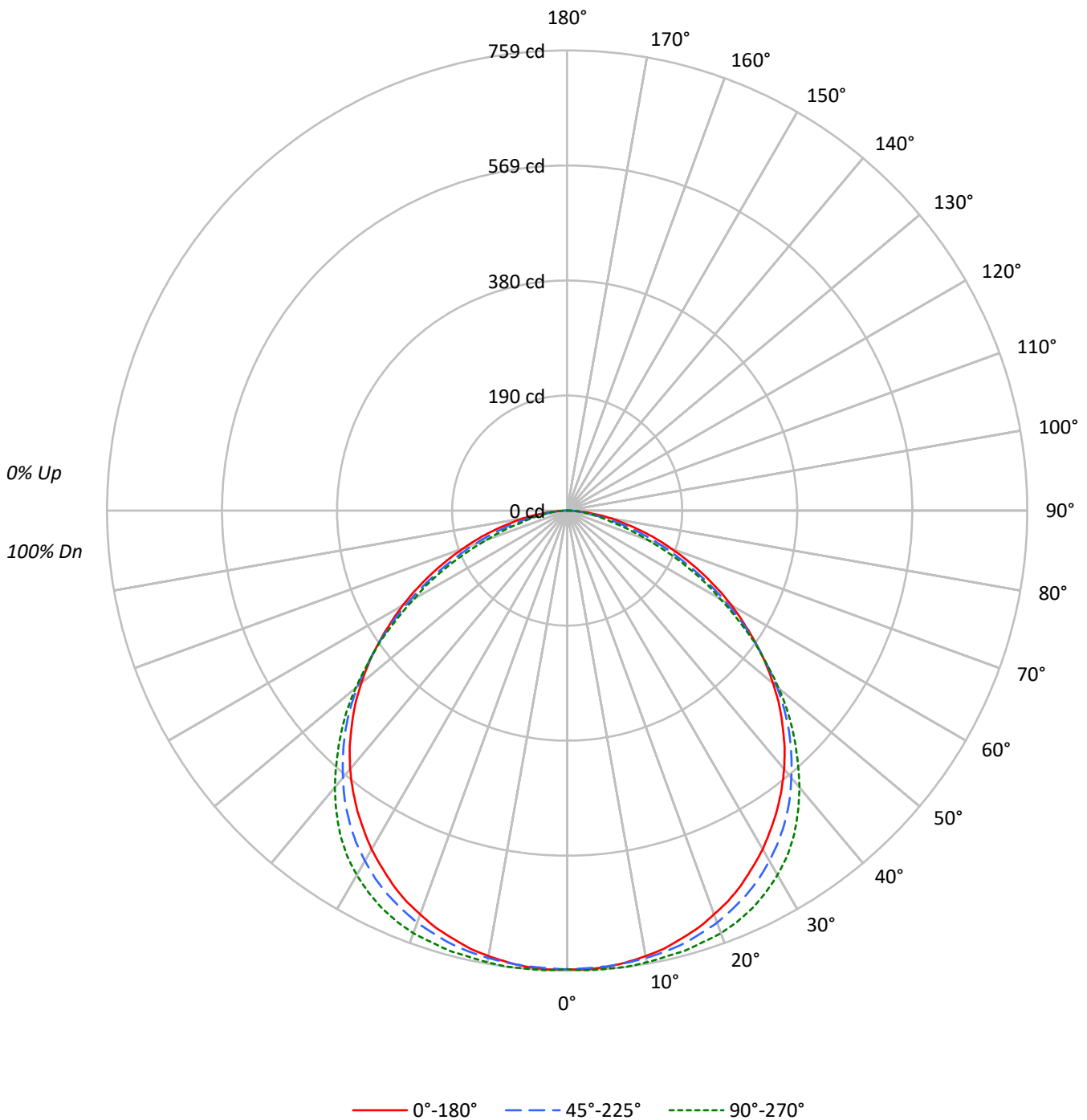
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2036	2036	2036
5°	2041	2038	2049
10°	2039	2047	2067
15°	2035	2061	2093
20°	2029	2071	2125
25°	2021	2076	2148
30°	2005	2073	2157
35°	1983	2058	2144
40°	1956	2022	2095
45°	1913	1972	2016
50°	1856	1891	1908
55°	1777	1772	1763
60°	1686	1630	1568
65°	1570	1458	1379
70°	1433	1277	1113
75°	1287	1061	833
80°	1145	775	725
85°	898	642	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	3.4
10°-20°	209.3	10.0
20°-30°	323.0	15.4
30°-40°	391.8	18.7
40°-50°	397.8	19.0
50°-60°	336.5	16.1
60°-70°	227.7	10.9
70°-80°	110.1	5.3
80°-90°	26.9	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°	604.4	28.8
0°-40°	996.1	47.5
0°-60°	1730.4	82.6
0°-90°	2095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	756	756	754	758	759	72
15°	731	735	740	748	751	206
25°	681	686	699	717	723	313
35°	604	610	626	646	652	377
45°	503	504	518	529	530	388
55°	379	376	378	378	376	339
65°	247	236	229	220	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°	756.6	756.6	756.6	756.6	756.6
2.5°	757.6	757.6	755.5	757.6	758.7
5°	755.5	755.5	754.5	757.6	758.7
7.5°	751.4	752.4	752.4	756.6	758.7
10°	746.2	748.3	749.3	755.5	756.6
12.5°	739.9	742.0	745.1	752.4	753.5
15°	730.6	734.7	739.9	748.3	751.4
17.5°	721.2	725.4	731.6	743.1	746.2
20°	708.7	713.9	723.3	736.8	742.0
22.5°	696.2	700.4	711.8	728.5	733.7
25°	680.6	685.8	699.3	717.0	723.3
27.5°	662.9	670.2	684.8	703.5	709.8
30°	645.2	651.5	667.1	687.9	694.1
32.5°	624.4	630.7	648.3	668.1	675.4
35°	603.6	609.8	626.5	646.3	652.5
37.5°	580.7	584.9	602.6	619.2	625.5
40°	556.8	559.9	575.5	592.2	596.3
42.5°	530.8	532.8	547.4	562.0	563.0
45°	502.7	503.7	518.3	528.7	529.7
47.5°	474.6	473.5	486.0	493.3	494.3
50°	443.3	443.3	451.7	455.8	455.8
52.5°	412.1	410.0	414.2	417.3	414.2
55°	378.8	375.7	377.8	377.8	375.7
57.5°	345.5	339.3	340.3	338.2	333.0
60°	313.2	306.0	302.8	295.6	291.4
62.5°	279.9	271.6	265.4	257.1	256.0
65°	246.6	236.2	229.0	219.6	216.5
67.5°	214.4	205.0	194.6	184.2	178.0
70°	182.1	171.7	162.3	148.8	141.5
72.5°	153.0	143.6	132.2	116.6	111.4
75°	123.8	114.5	102.0	88.5	80.1
77.5°	95.7	88.5	74.9	63.5	62.4
80°	73.9	65.6	50.0	46.8	46.8
82.5°	47.9	42.7	35.4	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)