

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: P295709

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295709
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-L82765-W2A1-U-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2214.1 lumens
Efficiency: N/A
Efficacy: 92.6 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

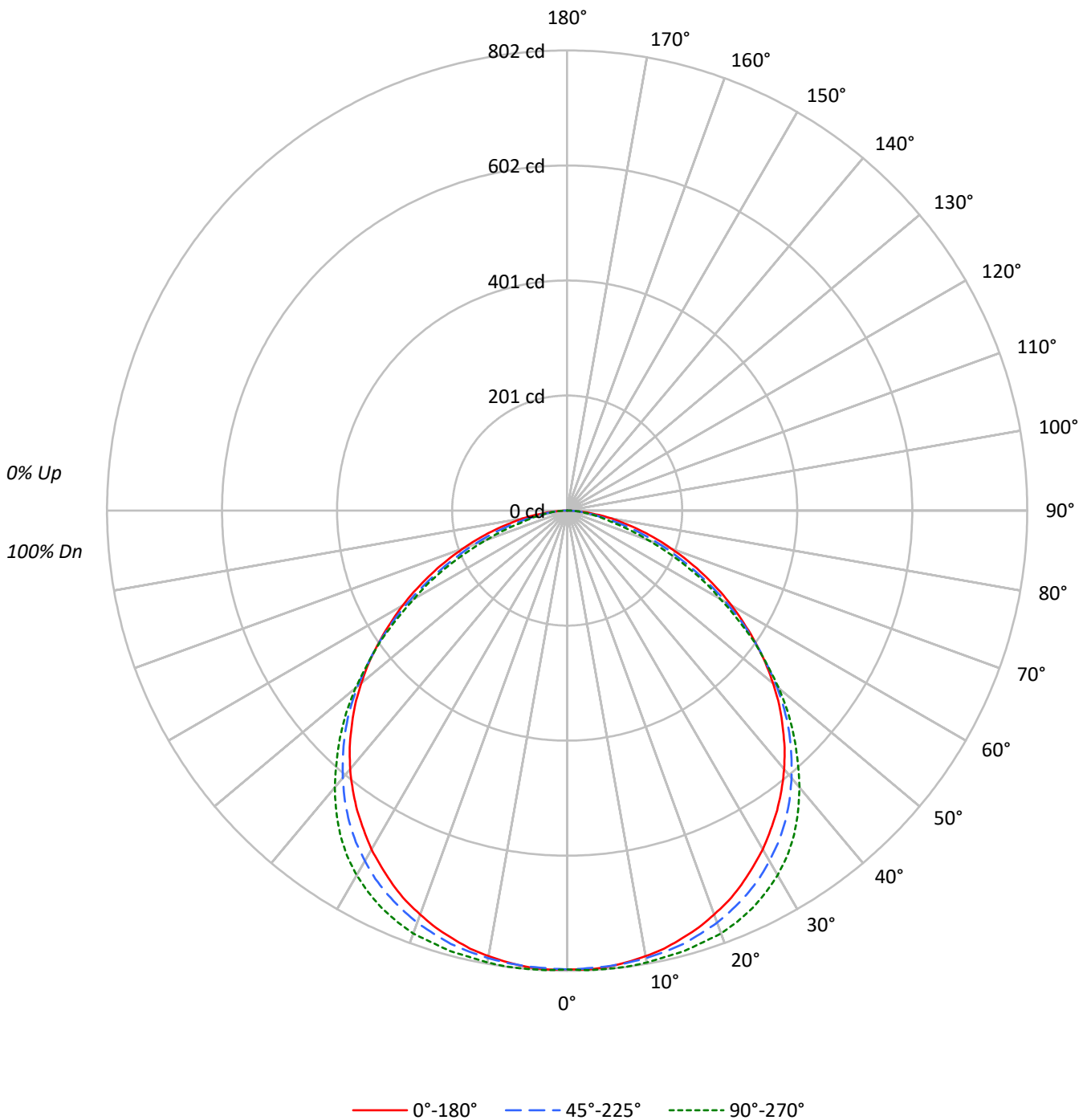
Input Watts (W): 23.901
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2152	2152	2152
5°	2157	2154	2166
10°	2155	2164	2185
15°	2151	2179	2212
20°	2145	2189	2246
25°	2136	2195	2270
30°	2119	2191	2279
35°	2096	2175	2265
40°	2067	2136	2214
45°	2022	2084	2130
50°	1961	1998	2017
55°	1878	1873	1863
60°	1781	1722	1657
65°	1660	1541	1457
70°	1515	1350	1177
75°	1361	1121	881
80°	1210	818	767
85°	951	679	679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	3.4
10°-20°	221.2	10.0
20°-30°	341.4	15.4
30°-40°	414.0	18.7
40°-50°	420.4	19.0
50°-60°	355.6	16.1
60°-70°	240.6	10.9
70°-80°	116.3	5.3
80°-90°	28.4	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°	638.7	28.8
0°-40°	1052.8	47.5
0°-60°	1828.7	82.6
0°-90°	2214.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2214.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	798	798	797	801	802	76
15°	772	776	782	791	794	218
25°	719	725	739	758	764	331
35°	638	644	662	683	690	399
45°	531	532	548	559	560	410
55°	400	397	399	399	397	358
65°	261	250	242	232	229	258
75°	131	121	108	94	85	139
85°	31	24	22	22	22	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	799.6	799.6	799.6	799.6	799.6
2.5°	800.7	800.7	798.5	800.7	801.8
5°	798.5	798.5	797.4	800.7	801.8
7.5°	794.1	795.2	795.2	799.6	801.8
10°	788.6	790.8	791.9	798.5	799.6
12.5°	782.0	784.2	787.5	795.2	796.3
15°	772.1	776.5	782.0	790.8	794.1
17.5°	762.2	766.6	773.2	785.3	788.6
20°	749.0	754.5	764.4	778.7	784.2
22.5°	735.8	740.2	752.3	769.9	775.4
25°	719.3	724.8	739.1	757.8	764.4
27.5°	700.6	708.3	723.7	743.5	750.1
30°	681.9	688.5	705.0	727.0	733.6
32.5°	659.9	666.5	685.2	706.1	713.8
35°	637.9	644.5	662.1	683.0	689.6
37.5°	613.7	618.1	636.8	654.4	661.0
40°	588.4	591.7	608.2	625.8	630.2
42.5°	560.9	563.1	578.5	593.9	595.0
45°	531.2	532.3	547.7	558.7	559.8
47.5°	501.5	500.4	513.6	521.3	522.4
50°	468.5	468.5	477.3	481.7	481.7
52.5°	435.5	433.3	437.7	441.0	437.7
55°	400.3	397.0	399.2	399.2	397.0
57.5°	365.1	358.5	359.6	357.4	351.9
60°	331.0	323.3	320.0	312.3	307.9
62.5°	295.8	287.0	280.4	271.7	270.6
65°	260.7	249.7	242.0	232.1	228.8
67.5°	226.6	216.7	205.7	194.7	188.1
70°	192.5	181.5	171.6	157.3	149.6
72.5°	161.7	151.8	139.7	123.2	117.7
75°	130.9	121.0	107.8	93.5	84.7
77.5°	101.2	93.5	79.2	67.1	66.0
80°	78.1	69.3	52.8	49.5	49.5
82.5°	50.6	45.1	37.4	35.2	35.2
85°	30.8	24.2	22.0	22.0	22.0
87.5°	12.1	11.0	11.0	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)