

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: P295670

Luminaire Tested: **14RLN-LD5-40-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-40-UNV-L92765-W2A1-U-5500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3808.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

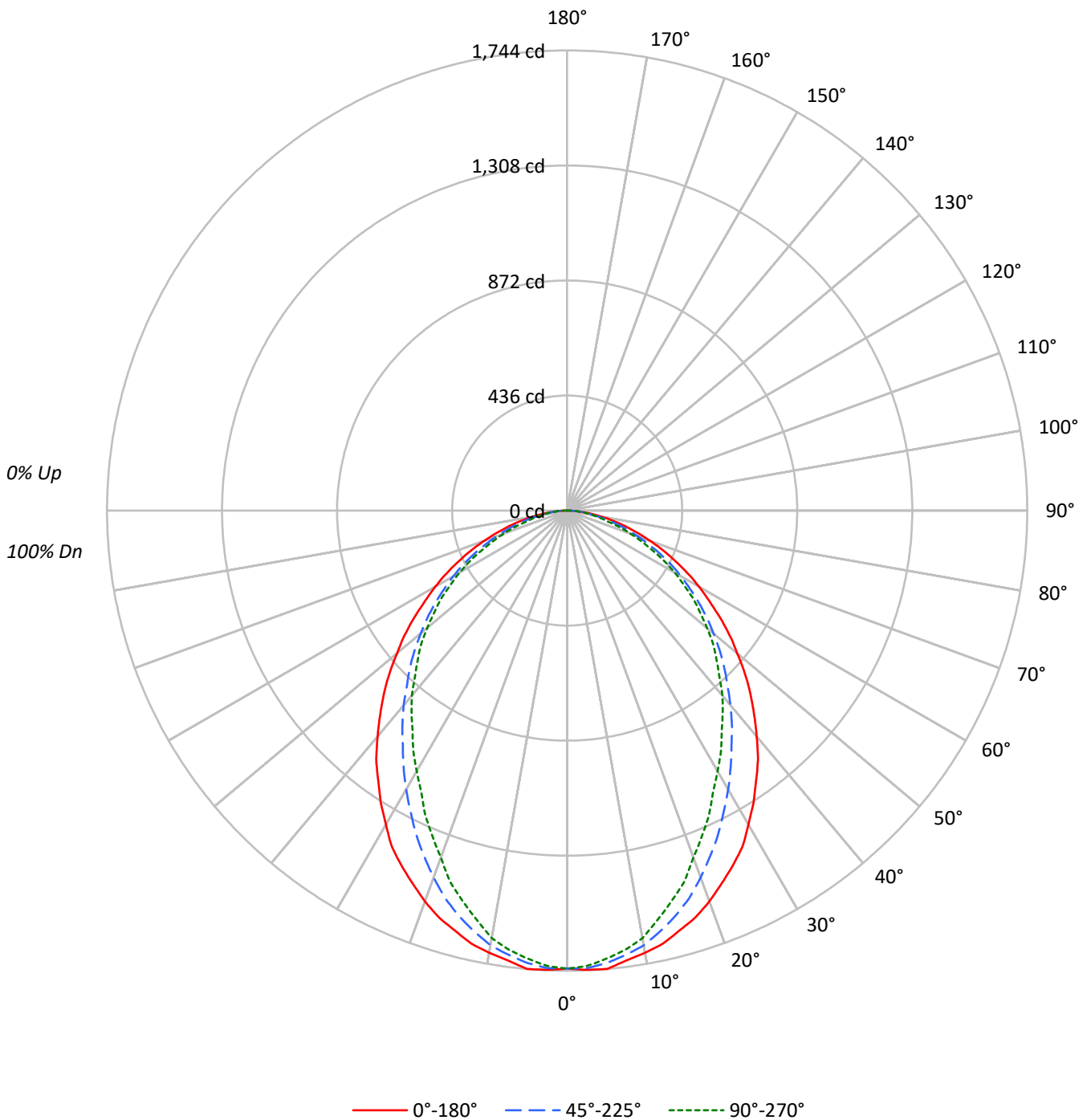
Input Watts (W): 40.548
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4670	4670	4670
5°	4710	4649	4606
10°	4650	4571	4496
15°	4589	4427	4266
20°	4514	4238	4007
25°	4408	4021	3778
30°	4268	3793	3544
35°	4100	3567	3355
40°	3927	3385	3215
45°	3740	3207	3048
50°	3522	3030	2895
55°	3320	2860	2739
60°	3108	2683	2537
65°	2878	2478	2274
70°	2620	2227	2012
75°	2358	1990	1639
80°	2019	1621	1545
85°	1639	1541	1541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	4.3
10°-20°	446.0	11.7
20°-30°	626.0	16.4
30°-40°	694.3	18.2
40°-50°	666.5	17.5
50°-60°	558.6	14.7
60°-70°	392.1	10.3
70°-80°	204.8	5.4
80°-90°	57.3	1.5
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°	1234.5	32.4
0°-40°	1928.8	50.6
0°-60°	3153.8	82.8
0°-90°	3808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1736	1736	1736	1736	1736	
5°	1744	1721	1721	1710	1705	165
15°	1647	1618	1589	1547	1531	465
25°	1485	1432	1354	1288	1272	683
35°	1248	1179	1086	1033	1021	782
45°	983	907	843	811	801	757
55°	708	655	610	590	584	633
65°	452	421	389	365	357	449
75°	227	209	191	169	158	240
85°	53	50	50	50	50	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1735.5	1735.5	1735.5	1735.5	1735.5
2.5°	1742.0	1732.3	1735.5	1735.5	1727.5
5°	1743.6	1721.1	1721.1	1709.8	1705.0
7.5°	1719.4	1701.8	1698.5	1684.1	1679.2
10°	1701.8	1684.1	1672.8	1653.5	1645.5
12.5°	1680.8	1653.5	1632.6	1600.4	1587.6
15°	1647.1	1618.1	1589.2	1547.3	1531.3
17.5°	1616.5	1582.7	1539.3	1492.7	1475.0
20°	1576.3	1536.1	1479.8	1415.4	1399.4
22.5°	1529.7	1483.0	1417.1	1347.9	1335.0
25°	1484.6	1431.5	1354.3	1288.4	1272.3
27.5°	1438.0	1373.6	1285.2	1214.4	1198.3
30°	1373.6	1307.7	1220.8	1151.7	1140.4
32.5°	1314.1	1248.2	1153.3	1097.0	1084.1
35°	1248.2	1179.0	1085.7	1032.6	1021.4
37.5°	1188.7	1108.2	1026.2	974.7	968.3
40°	1117.9	1045.5	963.5	924.9	915.2
42.5°	1048.7	976.3	899.1	865.4	854.1
45°	982.8	907.2	842.8	810.7	801.0
47.5°	913.6	844.4	783.3	757.6	751.2
50°	841.2	780.1	723.8	699.7	691.6
52.5°	776.9	714.2	667.5	645.0	635.3
55°	707.7	654.6	609.6	590.3	583.9
57.5°	638.6	595.1	551.7	534.0	524.4
60°	577.4	534.0	498.6	477.7	471.3
62.5°	514.7	477.7	443.9	424.6	416.6
65°	452.0	421.4	389.2	365.1	357.1
67.5°	394.1	360.3	334.6	313.7	305.6
70°	333.0	308.8	283.1	263.8	255.7
72.5°	276.7	259.0	236.4	215.5	207.5
75°	226.8	209.1	191.4	168.9	157.6
77.5°	176.9	165.7	148.0	128.7	128.7
80°	130.3	123.9	104.6	101.3	99.7
82.5°	90.1	86.9	75.6	74.0	74.0
85°	53.1	49.9	49.9	49.9	49.9
87.5°	22.5	24.1	25.7	25.7	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)