

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: P295669

Luminaire Tested: **14RLN-LD5-40-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295669  
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-5000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER WITH STANDARD LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3750.0 lumens  
Efficiency: N/A  
Efficacy: 92.9 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

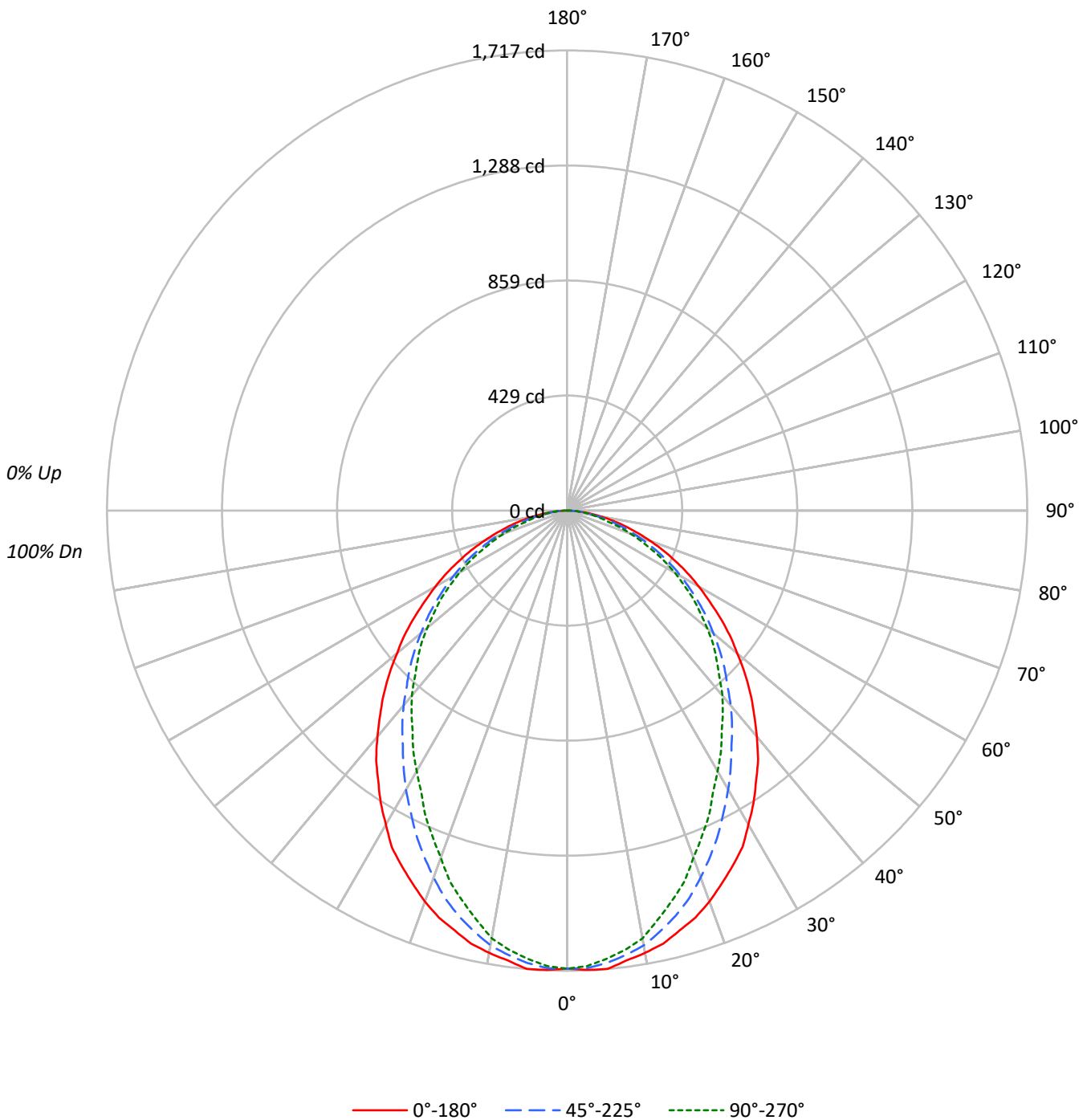
Input Watts (W): 40.362  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4599	4599	4599
5°	4638	4578	4535
10°	4579	4501	4428
15°	4519	4360	4201
20°	4445	4173	3946
25°	4341	3960	3720
30°	4203	3736	3489
35°	4038	3512	3304
40°	3867	3333	3166
45°	3683	3159	3002
50°	3468	2984	2851
55°	3270	2816	2698
60°	3060	2643	2498
65°	2834	2441	2239
70°	2580	2194	1982
75°	2322	1960	1614
80°	1988	1596	1522
85°	1615	1516	1516



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.0	4.3
10°-20°	439.2	11.7
20°-30°	616.4	16.4
30°-40°	683.7	18.2
40°-50°	656.4	17.5
50°-60°	550.1	14.7
60°-70°	386.1	10.3
70°-80°	201.6	5.4
80°-90°	56.4	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°	1215.7	32.4
0°-40°	1899.4	50.7
0°-60°	3105.8	82.8
0°-90°	3750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3750.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1717	1695	1695	1684	1679	162
15°	1622	1594	1565	1524	1508	458
25°	1462	1410	1334	1269	1253	673
35°	1229	1161	1069	1017	1006	770
45°	968	893	830	798	789	745
55°	697	645	600	581	575	623
65°	445	415	383	360	352	442
75°	223	206	188	166	155	237
85°	52	49	49	49	49	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1709.1	1709.1	1709.1	1709.1	1709.1
2.5°	1715.4	1705.9	1709.1	1709.1	1701.2
5°	1717.0	1694.8	1694.8	1683.8	1679.0
7.5°	1693.3	1675.8	1672.7	1658.4	1653.7
10°	1675.8	1658.4	1647.3	1628.3	1620.4
12.5°	1655.2	1628.3	1607.7	1576.0	1563.4
15°	1622.0	1593.5	1565.0	1523.8	1507.9
17.5°	1591.9	1558.6	1515.9	1469.9	1452.5
20°	1552.3	1512.7	1457.2	1393.9	1378.1
22.5°	1506.4	1460.4	1395.5	1327.4	1314.7
25°	1462.0	1409.7	1333.7	1268.8	1252.9
27.5°	1416.1	1352.7	1265.6	1195.9	1180.1
30°	1352.7	1287.8	1202.2	1134.1	1123.0
32.5°	1294.1	1229.2	1135.7	1080.3	1067.6
35°	1229.2	1161.0	1069.2	1016.9	1005.8
37.5°	1170.6	1091.4	1010.6	959.9	953.5
40°	1100.9	1029.6	948.8	910.8	901.3
42.5°	1032.7	961.5	885.4	852.2	841.1
45°	967.8	893.4	830.0	798.3	788.8
47.5°	899.7	831.6	771.4	746.0	739.7
50°	828.4	768.2	712.8	689.0	681.1
52.5°	765.1	703.3	657.3	635.2	625.7
55°	696.9	644.7	600.3	581.3	575.0
57.5°	628.8	586.1	543.3	525.9	516.4
60°	568.6	525.9	491.0	470.4	464.1
62.5°	506.9	470.4	437.2	418.2	410.2
65°	445.1	415.0	383.3	359.6	351.6
67.5°	388.1	354.8	329.5	308.9	301.0
70°	327.9	304.1	278.8	259.8	251.9
72.5°	272.4	255.0	232.8	212.3	204.3
75°	223.3	205.9	188.5	166.3	155.2
77.5°	174.2	163.1	145.7	126.7	126.7
80°	128.3	122.0	103.0	99.8	98.2
82.5°	88.7	85.5	74.4	72.9	72.9
85°	52.3	49.1	49.1	49.1	49.1
87.5°	22.2	23.8	25.3	25.3	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)