

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: P295588

Luminaire Tested: **14RLN-LD5-35-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295588
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-LD5-35-UNV-L82765-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3559.0 lumens
Efficiency: N/A
Efficacy: 104.8 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

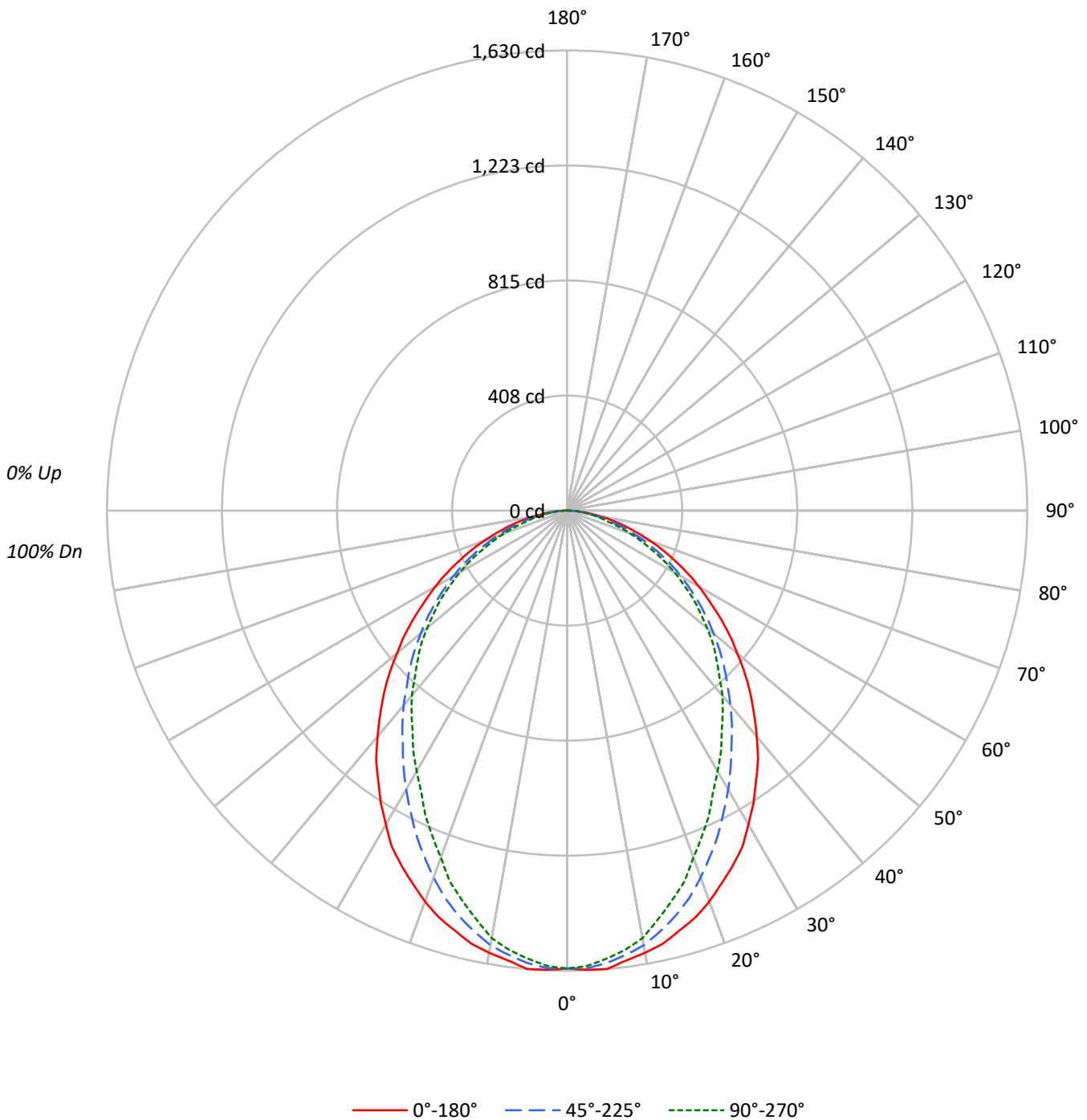
Input Watts (W): 33.945
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4365	4365	4365
5°	4402	4345	4304
10°	4346	4272	4202
15°	4289	4138	3987
20°	4219	3960	3745
25°	4120	3758	3531
30°	3989	3545	3312
35°	3832	3333	3136
40°	3670	3163	3005
45°	3495	2998	2849
50°	3291	2832	2706
55°	3103	2673	2560
60°	2905	2508	2371
65°	2690	2316	2125
70°	2448	2082	1880
75°	2204	1860	1531
80°	1888	1514	1444
85°	1531	1439	1439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	4.3
10°-20°	416.8	11.7
20°-30°	585.0	16.4
30°-40°	648.9	18.2
40°-50°	622.9	17.5
50°-60°	522.1	14.7
60°-70°	366.5	10.3
70°-80°	191.4	5.4
80°-90°	53.6	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°	1153.7	32.4
0°-40°	1802.6	50.6
0°-60°	2947.6	82.8
0°-90°	3559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1630	1608	1608	1598	1594	154
15°	1539	1512	1485	1446	1431	434
25°	1388	1338	1266	1204	1189	639
35°	1167	1102	1015	965	955	731
45°	918	848	788	758	749	707
55°	661	612	570	552	546	592
65°	422	394	364	341	334	420
75°	212	195	179	158	147	225
85°	50	47	47	47	47	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1622.0	1622.0	1622.0	1622.0	1622.0
2.5°	1628.1	1619.0	1622.0	1622.0	1614.5
5°	1629.6	1608.5	1608.5	1598.0	1593.5
7.5°	1607.0	1590.5	1587.5	1573.9	1569.4
10°	1590.5	1573.9	1563.4	1545.4	1537.9
12.5°	1570.9	1545.4	1525.8	1495.8	1483.7
15°	1539.4	1512.3	1485.3	1446.2	1431.1
17.5°	1510.8	1479.2	1438.6	1395.1	1378.5
20°	1473.2	1435.6	1383.0	1322.9	1307.9
22.5°	1429.6	1386.0	1324.4	1259.8	1247.7
25°	1387.5	1337.9	1265.8	1204.1	1189.1
27.5°	1343.9	1283.8	1201.1	1135.0	1120.0
30°	1283.8	1222.2	1141.0	1076.4	1065.8
32.5°	1228.2	1166.6	1077.9	1025.2	1013.2
35°	1166.6	1101.9	1014.7	965.1	954.6
37.5°	1110.9	1035.8	959.1	911.0	905.0
40°	1044.8	977.1	900.5	864.4	855.4
42.5°	980.1	912.5	840.3	808.8	798.2
45°	918.5	847.9	787.7	757.7	748.6
47.5°	853.9	789.2	732.1	708.0	702.0
50°	786.2	729.1	676.5	653.9	646.4
52.5°	726.1	667.5	623.9	602.8	593.8
55°	661.4	611.8	569.7	551.7	545.7
57.5°	596.8	556.2	515.6	499.1	490.1
60°	539.7	499.1	466.0	446.5	440.5
62.5°	481.1	446.5	414.9	396.9	389.4
65°	422.4	393.9	363.8	341.2	333.7
67.5°	368.3	336.7	312.7	293.1	285.6
70°	311.2	288.6	264.6	246.5	239.0
72.5°	258.6	242.0	221.0	201.4	193.9
75°	212.0	195.4	178.9	157.8	147.3
77.5°	165.4	154.8	138.3	120.3	120.3
80°	121.8	115.8	97.7	94.7	93.2
82.5°	84.2	81.2	70.7	69.2	69.2
85°	49.6	46.6	46.6	46.6	46.6
87.5°	21.0	22.5	24.1	24.1	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)