

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: P295549

Luminaire Tested: **14RLN-LD5-35-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295549
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-L83050-W2A1-U-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3565.0 lumens
Efficiency: N/A
Efficacy: 106.2 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

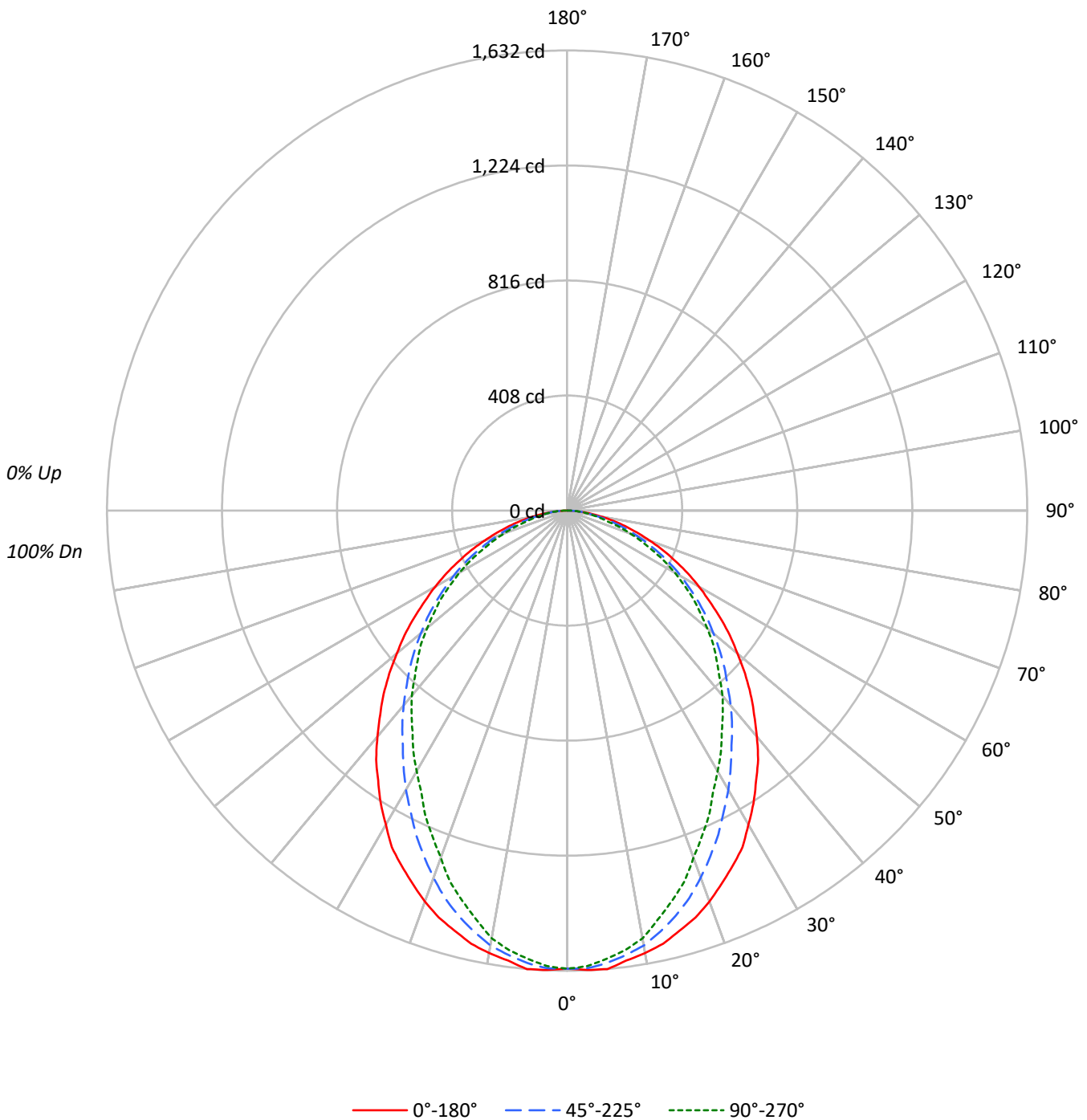
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4372	4372	4372
5°	4409	4352	4312
10°	4353	4279	4209
15°	4296	4145	3994
20°	4226	3967	3752
25°	4127	3765	3537
30°	3996	3551	3317
35°	3839	3339	3141
40°	3676	3169	3010
45°	3502	3003	2854
50°	3297	2837	2711
55°	3109	2677	2564
60°	2909	2512	2375
65°	2694	2320	2129
70°	2452	2085	1884
75°	2207	1863	1535
80°	1891	1517	1447
85°	1535	1442	1442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	4.3
10°-20°	417.5	11.7
20°-30°	586.0	16.4
30°-40°	650.0	18.2
40°-50°	624.0	17.5
50°-60°	522.9	14.7
60°-70°	367.1	10.3
70°-80°	191.7	5.4
80°-90°	53.7	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°	1155.7	32.4
0°-40°	1805.7	50.7
0°-60°	2952.6	82.8
0°-90°	3565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1632	1611	1611	1601	1596	154
15°	1542	1515	1488	1449	1434	435
25°	1390	1340	1268	1206	1191	640
35°	1168	1104	1016	967	956	732
45°	920	849	789	759	750	709
55°	663	613	571	553	547	593
65°	423	394	364	342	334	420
75°	212	196	179	158	148	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°	1624.8	1624.8	1624.8	1624.8	1624.8
2.5°	1630.8	1621.8	1624.8	1624.8	1617.3
5°	1632.3	1611.2	1611.2	1600.7	1596.2
7.5°	1609.7	1593.2	1590.2	1576.6	1572.1
10°	1593.2	1576.6	1566.1	1548.0	1540.5
12.5°	1573.6	1548.0	1528.4	1498.3	1486.2
15°	1542.0	1514.9	1487.8	1448.6	1433.5
17.5°	1513.4	1481.7	1441.1	1397.4	1380.8
20°	1475.7	1438.1	1385.4	1325.1	1310.1
22.5°	1432.0	1388.4	1326.6	1261.9	1249.8
25°	1389.9	1340.2	1267.9	1206.2	1191.1
27.5°	1346.2	1286.0	1203.2	1136.9	1121.8
30°	1286.0	1224.2	1142.9	1078.2	1067.6
32.5°	1230.3	1168.5	1079.7	1027.0	1014.9
35°	1168.5	1103.8	1016.4	966.7	956.2
37.5°	1112.8	1037.5	960.7	912.5	906.5
40°	1046.5	978.8	902.0	865.8	856.8
42.5°	981.8	914.0	841.8	810.1	799.6
45°	920.1	849.3	789.1	758.9	749.9
47.5°	855.3	790.6	733.3	709.2	703.2
50°	787.5	730.3	677.6	655.0	647.5
52.5°	727.3	668.6	624.9	603.8	594.8
55°	662.6	612.9	570.7	552.6	546.6
57.5°	597.8	557.2	516.5	499.9	490.9
60°	540.6	499.9	466.8	447.2	441.2
62.5°	481.9	447.2	415.6	397.5	390.0
65°	423.1	394.5	364.4	341.8	334.3
67.5°	368.9	337.3	313.2	293.6	286.1
70°	311.7	289.1	265.0	247.0	239.4
72.5°	259.0	242.4	221.4	201.8	194.3
75°	212.3	195.8	179.2	158.1	147.6
77.5°	165.6	155.1	138.5	120.5	120.5
80°	122.0	115.9	97.9	94.9	93.4
82.5°	84.3	81.3	70.8	69.3	69.3
85°	49.7	46.7	46.7	46.7	46.7
87.5°	21.1	22.6	24.1	24.1	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)