

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: P295660

Luminaire Tested: **14RLN-LD5-35-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295660
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-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: 3295.0 lumens
Efficiency: N/A
Efficacy: 96.0 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

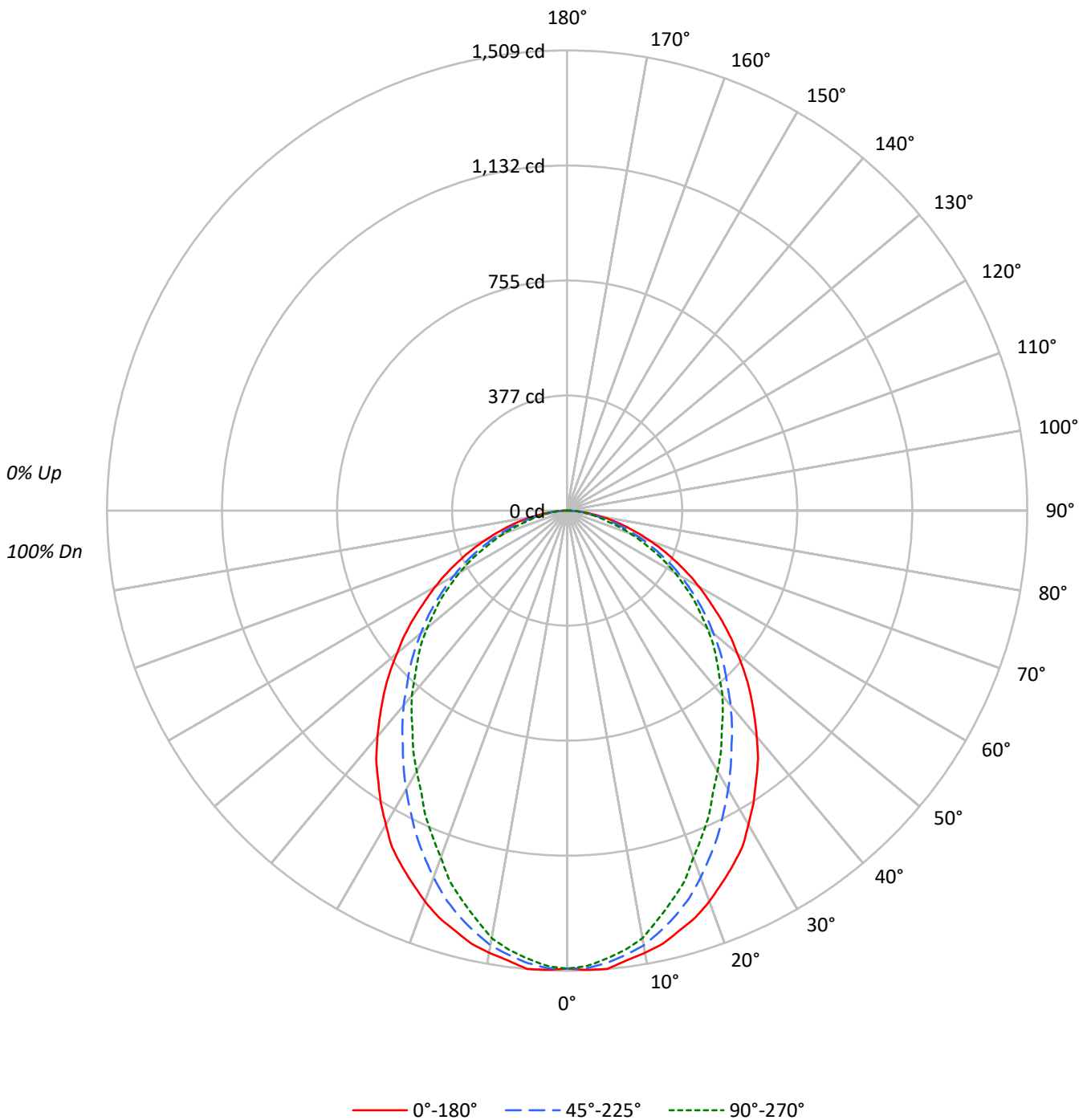
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4041	4041	4041
5°	4075	4023	3985
10°	4024	3955	3891
15°	3970	3831	3691
20°	3906	3667	3467
25°	3814	3480	3269
30°	3693	3283	3066
35°	3548	3086	2903
40°	3398	2929	2782
45°	3236	2775	2638
50°	3047	2622	2506
55°	2873	2475	2370
60°	2689	2322	2195
65°	2490	2145	1968
70°	2267	1928	1741
75°	2040	1722	1418
80°	1746	1402	1337
85°	1417	1331	1331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	4.3
10°-20°	385.9	11.7
20°-30°	541.6	16.4
30°-40°	600.8	18.2
40°-50°	576.7	17.5
50°-60°	483.4	14.7
60°-70°	339.3	10.3
70°-80°	177.2	5.4
80°-90°	49.6	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°	1068.2	32.4
0°-40°	1668.9	50.6
0°-60°	2729.0	82.8
0°-90°	3295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1509	1489	1489	1480	1475	142
15°	1425	1400	1375	1339	1325	402
25°	1285	1239	1172	1115	1101	591
35°	1080	1020	940	894	884	676
45°	850	785	729	702	693	655
55°	612	566	528	511	505	548
65°	391	365	337	316	309	389
75°	196	181	166	146	136	208
85°	46	43	43	43	43	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.7	1501.7	1501.7	1501.7	1501.7
2.5°	1507.3	1498.9	1501.7	1501.7	1494.8
5°	1508.7	1489.2	1489.2	1479.5	1475.3
7.5°	1487.8	1472.5	1469.7	1457.2	1453.0
10°	1472.5	1457.2	1447.4	1430.7	1423.8
12.5°	1454.4	1430.7	1412.7	1384.8	1373.7
15°	1425.2	1400.1	1375.1	1338.9	1325.0
17.5°	1398.7	1369.5	1331.9	1291.6	1276.3
20°	1363.9	1329.1	1280.4	1224.8	1210.8
22.5°	1323.6	1283.2	1226.2	1166.3	1155.2
25°	1284.6	1238.7	1171.9	1114.8	1100.9
27.5°	1244.3	1188.6	1112.0	1050.8	1036.9
30°	1188.6	1131.5	1056.4	996.5	986.8
32.5°	1137.1	1080.0	997.9	949.2	938.1
35°	1080.0	1020.2	939.5	893.5	883.8
37.5°	1028.5	958.9	888.0	843.4	837.9
40°	967.3	904.7	833.7	800.3	791.9
42.5°	907.4	844.8	778.0	748.8	739.0
45°	850.4	785.0	729.3	701.5	693.1
47.5°	790.5	730.7	677.8	655.5	650.0
50°	727.9	675.0	626.3	605.4	598.5
52.5°	672.2	617.9	577.6	558.1	549.8
55°	612.4	566.5	527.5	510.8	505.2
57.5°	552.5	515.0	477.4	462.1	453.7
60°	499.6	462.1	431.5	413.4	407.8
62.5°	445.4	413.4	384.1	367.4	360.5
65°	391.1	364.6	336.8	315.9	309.0
67.5°	341.0	311.8	289.5	271.4	264.4
70°	288.1	267.2	245.0	228.3	221.3
72.5°	239.4	224.1	204.6	186.5	179.5
75°	196.2	180.9	165.6	146.1	136.4
77.5°	153.1	143.4	128.0	111.3	111.3
80°	112.7	107.2	90.5	87.7	86.3
82.5°	77.9	75.2	65.4	64.0	64.0
85°	45.9	43.1	43.1	43.1	43.1
87.5°	19.5	20.9	22.3	22.3	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)