

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: P295585

Luminaire Tested: **14RLN-LD5-35-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295585
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-2700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3271.0 lumens
Efficiency: N/A
Efficacy: 97.4 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

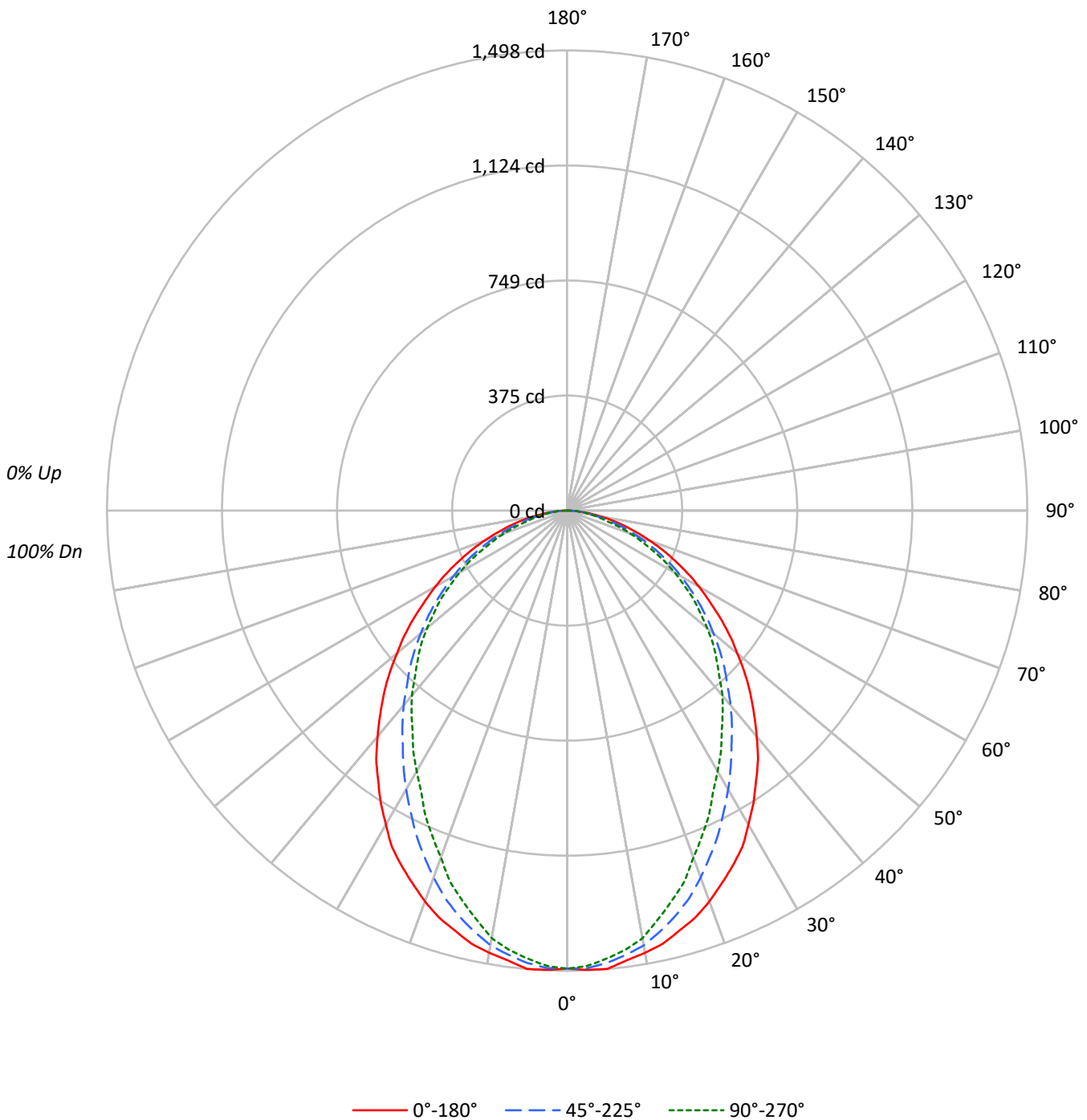
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4012	4012	4012
5°	4046	3994	3956
10°	3994	3926	3862
15°	3942	3803	3664
20°	3877	3640	3442
25°	3787	3454	3245
30°	3666	3259	3044
35°	3522	3064	2882
40°	3373	2907	2762
45°	3213	2755	2619
50°	3025	2603	2487
55°	2852	2457	2353
60°	2669	2305	2179
65°	2472	2129	1953
70°	2250	1913	1729
75°	2025	1709	1408
80°	1734	1392	1328
85°	1408	1321	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	4.3
10°-20°	383.1	11.7
20°-30°	537.7	16.4
30°-40°	596.4	18.2
40°-50°	572.5	17.5
50°-60°	479.8	14.7
60°-70°	336.8	10.3
70°-80°	175.9	5.4
80°-90°	49.2	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°	1060.4	32.4
0°-40°	1656.8	50.7
0°-60°	2709.1	82.8
0°-90°	3271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3271.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1498	1478	1478	1469	1464	141
15°	1415	1390	1365	1329	1315	399
25°	1275	1230	1163	1107	1093	587
35°	1072	1013	933	887	877	671
45°	844	779	724	696	688	650
55°	608	562	524	507	502	544
65°	388	362	334	314	307	386
75°	195	180	164	145	135	207
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°	1490.8	1490.8	1490.8	1490.8	1490.8
2.5°	1496.3	1488.0	1490.8	1490.8	1483.9
5°	1497.7	1478.4	1478.4	1468.7	1464.5
7.5°	1477.0	1461.8	1459.0	1446.6	1442.4
10°	1461.8	1446.6	1436.9	1420.3	1413.4
12.5°	1443.8	1420.3	1402.4	1374.7	1363.7
15°	1414.8	1389.9	1365.1	1329.1	1315.3
17.5°	1388.5	1359.5	1322.2	1282.2	1267.0
20°	1354.0	1319.5	1271.1	1215.8	1202.0
22.5°	1313.9	1273.9	1217.2	1157.8	1146.8
25°	1275.3	1229.7	1163.3	1106.7	1092.9
27.5°	1235.2	1179.9	1103.9	1043.1	1029.3
30°	1179.9	1123.3	1048.7	989.3	979.6
32.5°	1128.8	1072.2	990.6	942.3	931.2
35°	1072.2	1012.7	932.6	887.0	877.3
37.5°	1021.0	952.0	881.5	837.3	831.7
40°	960.2	898.1	827.6	794.4	786.2
42.5°	900.8	838.7	772.3	743.3	733.7
45°	844.2	779.2	724.0	696.3	688.1
47.5°	784.8	725.4	672.9	650.8	645.2
50°	722.6	670.1	621.7	601.0	594.1
52.5°	667.3	613.4	573.4	554.0	545.7
55°	607.9	562.3	523.6	507.1	501.5
57.5°	548.5	511.2	473.9	458.7	450.4
60°	496.0	458.7	428.3	410.3	404.8
62.5°	442.1	410.3	381.3	364.8	357.8
65°	388.2	362.0	334.4	313.6	306.7
67.5°	338.5	309.5	287.4	269.4	262.5
70°	286.0	265.3	243.2	226.6	219.7
72.5°	237.6	222.4	203.1	185.1	178.2
75°	194.8	179.6	164.4	145.1	135.4
77.5°	152.0	142.3	127.1	110.5	110.5
80°	111.9	106.4	89.8	87.0	85.7
82.5°	77.4	74.6	64.9	63.6	63.6
85°	45.6	42.8	42.8	42.8	42.8
87.5°	19.3	20.7	22.1	22.1	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)