

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: P295803

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-6500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2870.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

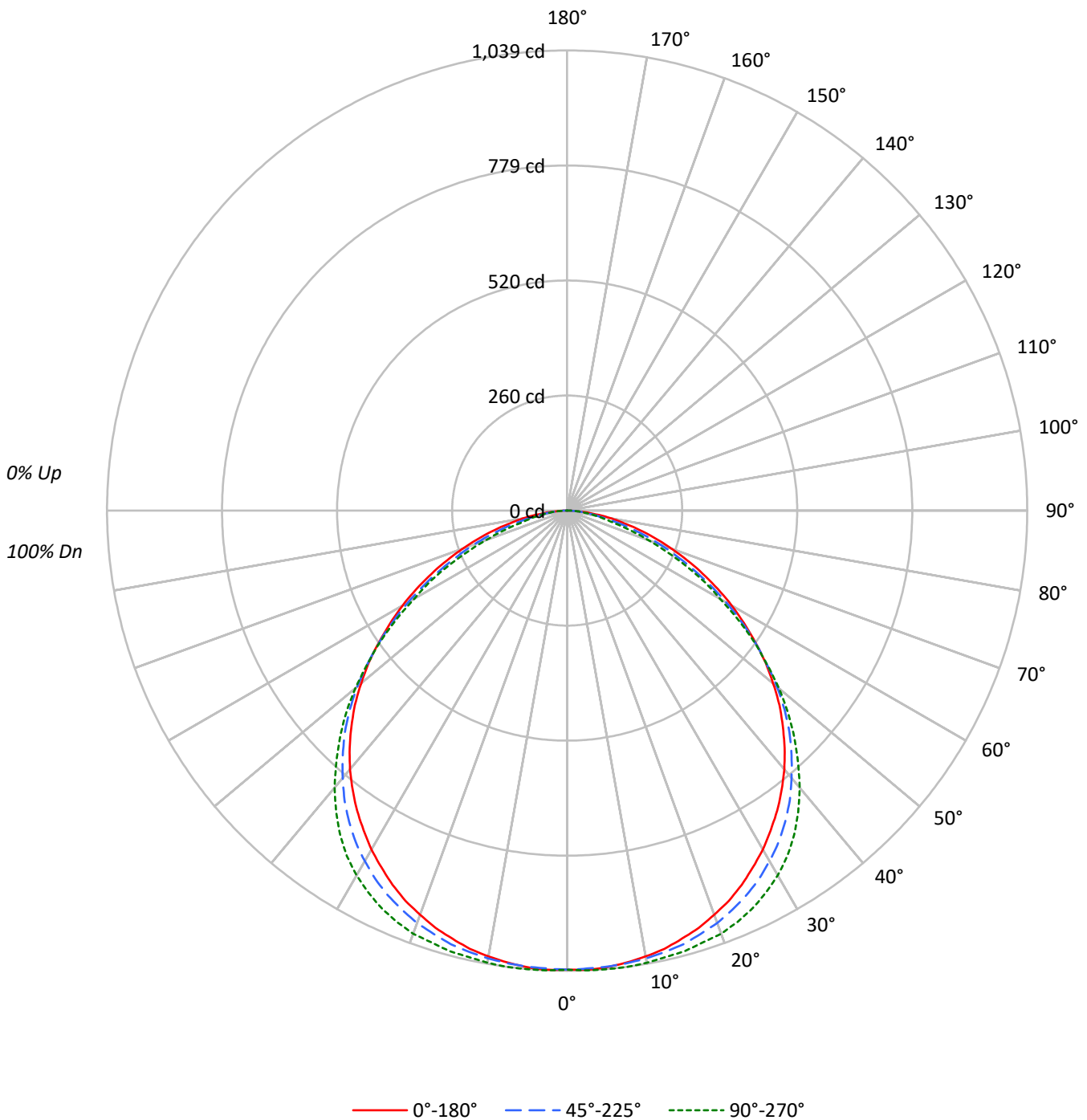
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2789	2789	2789
5°	2796	2792	2807
10°	2793	2805	2832
15°	2788	2824	2868
20°	2780	2837	2911
25°	2768	2845	2942
30°	2747	2840	2955
35°	2716	2820	2937
40°	2679	2770	2870
45°	2621	2702	2762
50°	2542	2590	2614
55°	2434	2428	2415
60°	2309	2233	2148
65°	2152	1997	1888
70°	1963	1750	1526
75°	1764	1452	1142
80°	1568	1060	995
85°	1232	880	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	3.4
10°-20°	286.7	10.0
20°-30°	442.5	15.4
30°-40°	536.7	18.7
40°-50°	544.9	19.0
50°-60°	461.0	16.1
60°-70°	311.9	10.9
70°-80°	150.8	5.3
80°-90°	36.8	1.3
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°	827.9	28.8
0°-40°	1364.6	47.5
0°-60°	2370.5	82.6
0°-90°	2870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1035	1035	1034	1038	1039	98
15°	1001	1006	1014	1025	1029	283
25°	932	940	958	982	991	429
35°	827	835	858	885	894	517
45°	689	690	710	724	726	531
55°	519	515	518	518	515	464
65°	338	324	314	301	296	335
75°	170	157	140	121	110	181
85°	40	31	28	28	28	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1036.5	1036.5	1036.5	1036.5	1036.5
2.5°	1037.9	1037.9	1035.0	1037.9	1039.3
5°	1035.0	1035.0	1033.6	1037.9	1039.3
7.5°	1029.3	1030.8	1030.8	1036.5	1039.3
10°	1022.2	1025.1	1026.5	1035.0	1036.5
12.5°	1013.7	1016.5	1020.8	1030.8	1032.2
15°	1000.8	1006.5	1013.7	1025.1	1029.3
17.5°	988.0	993.7	1002.2	1017.9	1022.2
20°	970.9	978.0	990.8	1009.4	1016.5
22.5°	953.8	959.5	975.2	998.0	1005.1
25°	932.4	939.5	958.1	982.3	990.8
27.5°	908.2	918.1	938.1	963.8	972.3
30°	883.9	892.5	913.9	942.4	950.9
32.5°	855.4	864.0	888.2	915.3	925.3
35°	826.9	835.4	858.3	885.3	893.9
37.5°	795.5	801.2	825.5	848.3	856.8
40°	762.7	767.0	788.4	811.2	816.9
42.5°	727.1	729.9	749.9	769.9	771.3
45°	688.6	690.0	710.0	724.2	725.7
47.5°	650.1	648.7	665.8	675.8	677.2
50°	607.3	607.3	618.7	624.4	624.4
52.5°	564.6	561.7	567.4	571.7	567.4
55°	518.9	514.7	517.5	517.5	514.7
57.5°	473.3	464.8	466.2	463.3	456.2
60°	429.1	419.1	414.9	404.9	399.2
62.5°	383.5	372.1	363.5	352.1	350.7
65°	337.9	323.6	313.6	300.8	296.5
67.5°	293.7	280.9	266.6	252.3	243.8
70°	249.5	235.2	222.4	203.9	193.9
72.5°	209.6	196.7	181.1	159.7	152.5
75°	169.7	156.8	139.7	121.2	109.8
77.5°	131.2	121.2	102.6	87.0	85.5
80°	101.2	89.8	68.4	64.2	64.2
82.5°	65.6	58.5	48.5	45.6	45.6
85°	39.9	31.4	28.5	28.5	28.5
87.5°	15.7	14.3	14.3	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)