

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: P295806

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295806
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-LD5-40-RDP-UNV-L92765-W2A1-U-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2945.0 lumens
Efficiency: N/A
Efficacy: 74.5 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

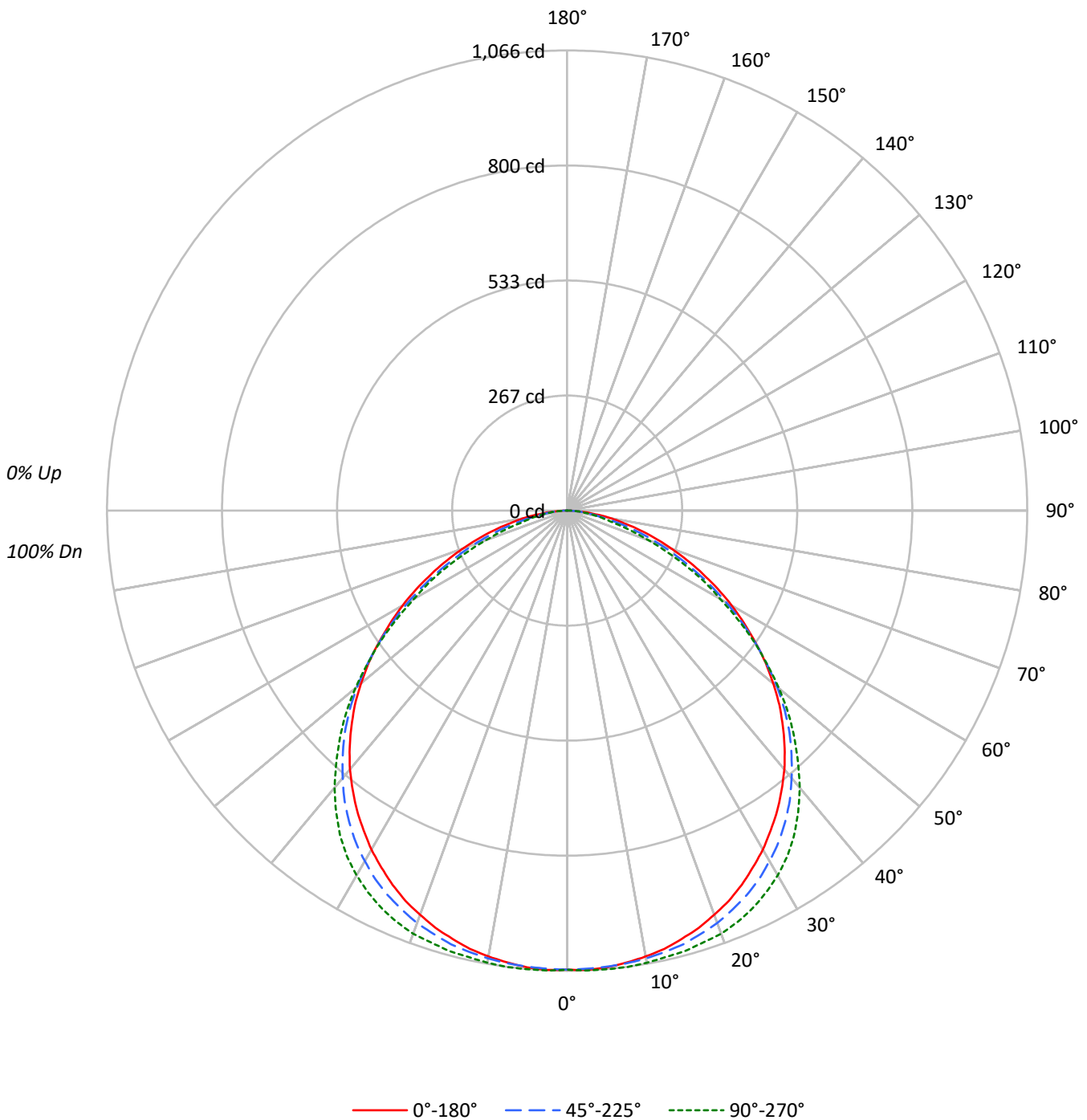
Input Watts (W): 39.525
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2862	2862	2862
5°	2869	2865	2881
10°	2866	2878	2906
15°	2861	2898	2942
20°	2853	2912	2987
25°	2841	2919	3019
30°	2818	2914	3032
35°	2787	2893	3013
40°	2749	2842	2945
45°	2689	2772	2834
50°	2609	2658	2683
55°	2498	2491	2478
60°	2370	2291	2204
65°	2208	2049	1938
70°	2014	1795	1566
75°	1810	1491	1171
80°	1610	1088	1020
85°	1266	905	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	3.4
10°-20°	294.2	10.0
20°-30°	454.1	15.4
30°-40°	550.7	18.7
40°-50°	559.2	19.0
50°-60°	473.0	16.1
60°-70°	320.0	10.9
70°-80°	154.7	5.3
80°-90°	37.8	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°	849.6	28.8
0°-40°	1400.3	47.5
0°-60°	2432.5	82.6
0°-90°	2945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1062	1062	1061	1065	1066	101
15°	1027	1033	1040	1052	1056	290
25°	957	964	983	1008	1017	441
35°	848	857	881	908	917	530
45°	707	708	728	743	745	545
55°	532	528	531	531	528	476
65°	347	332	322	309	304	344
75°	174	161	143	124	113	186
85°	41	32	29	29	29	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1063.5	1063.5	1063.5	1063.5	1063.5
2.5°	1065.0	1065.0	1062.1	1065.0	1066.5
5°	1062.1	1062.1	1060.6	1065.0	1066.5
7.5°	1056.2	1057.7	1057.7	1063.5	1066.5
10°	1048.9	1051.8	1053.3	1062.1	1063.5
12.5°	1040.1	1043.1	1047.5	1057.7	1059.2
15°	1027.0	1032.8	1040.1	1051.8	1056.2
17.5°	1013.8	1019.7	1028.4	1044.5	1048.9
20°	996.3	1003.6	1016.7	1035.8	1043.1
22.5°	978.7	984.5	1000.6	1024.0	1031.4
25°	956.8	964.1	983.1	1008.0	1016.7
27.5°	931.9	942.1	962.6	988.9	997.7
30°	907.0	915.8	937.7	967.0	975.8
32.5°	877.8	886.5	911.4	939.2	949.4
35°	848.5	857.3	880.7	908.5	917.3
37.5°	816.3	822.2	847.0	870.4	879.2
40°	782.7	787.1	809.0	832.4	838.3
42.5°	746.1	749.0	769.5	790.0	791.4
45°	706.6	708.1	728.5	743.2	744.6
47.5°	667.1	665.6	683.2	693.4	694.9
50°	623.2	623.2	634.9	640.8	640.8
52.5°	579.3	576.4	582.2	586.6	582.2
55°	532.5	528.1	531.0	531.0	528.1
57.5°	485.7	476.9	478.4	475.5	468.1
60°	440.3	430.1	425.7	415.5	409.6
62.5°	393.5	381.8	373.0	361.3	359.9
65°	346.7	332.1	321.8	308.7	304.3
67.5°	301.4	288.2	273.6	258.9	250.2
70°	256.0	241.4	228.2	209.2	199.0
72.5°	215.1	201.9	185.8	163.8	156.5
75°	174.1	160.9	143.4	124.3	112.6
77.5°	134.6	124.3	105.3	89.2	87.8
80°	103.9	92.2	70.2	65.8	65.8
82.5°	67.3	60.0	49.7	46.8	46.8
85°	41.0	32.2	29.3	29.3	29.3
87.5°	16.1	14.6	14.6	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)