

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: P296701

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-RDP-UNV-L92765-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2898.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

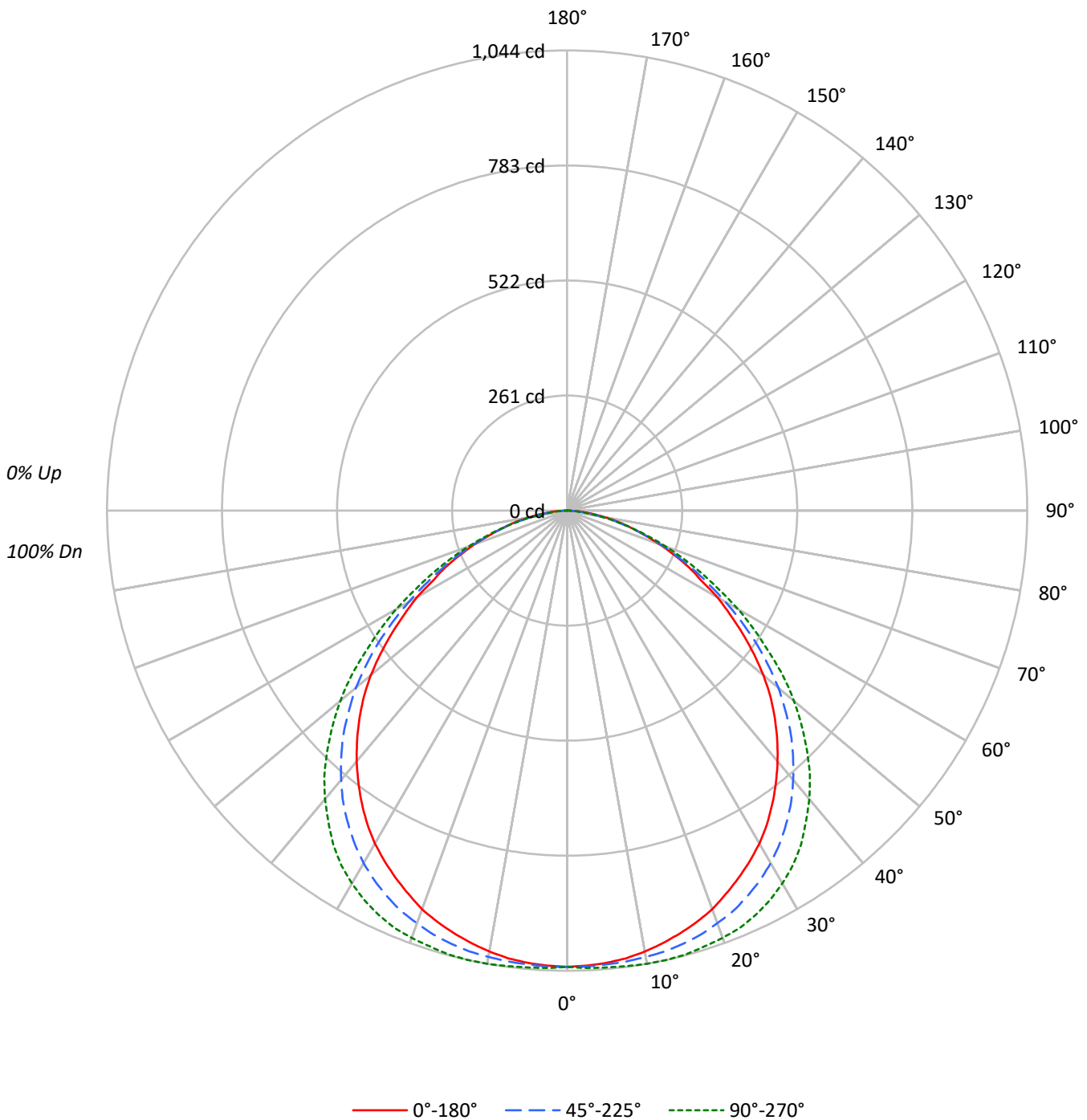
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2786	2786	2786
5°	2782	2791	2811
10°	2775	2809	2853
15°	2765	2834	2904
20°	2756	2853	2954
25°	2732	2868	3005
30°	2710	2870	3035
35°	2667	2848	3040
40°	2609	2802	3001
45°	2536	2732	2928
50°	2434	2619	2812
55°	2279	2453	2620
60°	2118	2232	2414
65°	1941	2009	2145
70°	1757	1785	1869
75°	1548	1511	1567
80°	1347	1237	1181
85°	1096	821	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	3.4
10°-20°	287.4	9.9
20°-30°	445.3	15.4
30°-40°	542.0	18.7
40°-50°	552.0	19.0
50°-60°	465.5	16.1
60°-70°	314.9	10.9
70°-80°	157.4	5.4
80°-90°	35.0	1.2
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°	831.3	28.7
0°-40°	1373.3	47.4
0°-60°	2390.8	82.5
0°-90°	2898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1030	1032	1033	1039	1040	98
15°	993	1000	1017	1035	1042	280
25°	920	934	966	998	1012	424
35°	812	830	867	908	925	507
45°	666	679	718	755	769	513
55°	486	493	523	548	558	434
65°	305	300	316	330	337	301
75°	149	144	145	147	151	160
85°	36	30	27	23	23	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1035.2	1035.2	1035.2	1035.2	1035.2
2.5°	1033.4	1033.4	1035.2	1036.9	1038.7
5°	1029.9	1031.6	1033.4	1038.7	1040.5
7.5°	1024.5	1026.3	1031.6	1038.7	1042.3
10°	1015.7	1019.2	1028.1	1038.7	1044.0
12.5°	1005.0	1010.4	1024.5	1036.9	1044.0
15°	992.6	999.7	1017.4	1035.2	1042.3
17.5°	978.5	987.3	1008.6	1028.1	1036.9
20°	962.5	973.1	996.2	1021.0	1031.6
22.5°	941.2	955.4	983.8	1012.1	1024.5
25°	920.0	934.1	966.0	998.0	1012.1
27.5°	896.9	912.9	946.5	982.0	996.2
30°	872.1	886.3	923.5	960.7	976.7
32.5°	843.7	857.9	896.9	935.9	953.6
35°	811.8	829.6	866.8	907.6	925.3
37.5°	778.2	794.1	834.9	873.9	889.8
40°	742.7	758.7	797.7	838.4	854.4
42.5°	705.5	721.4	758.7	797.7	815.4
45°	666.5	678.9	717.9	755.1	769.3
47.5°	625.7	634.6	671.8	707.3	721.4
50°	581.4	590.3	625.7	657.6	671.8
52.5°	533.5	540.6	574.3	602.7	618.6
55°	485.7	492.8	522.9	547.7	558.4
57.5°	437.8	441.4	468.0	492.8	503.4
60°	393.5	393.5	414.8	434.3	448.5
62.5°	342.1	347.4	363.4	382.9	388.2
65°	304.9	299.6	315.5	329.7	336.8
67.5°	262.3	258.8	269.4	281.8	285.4
70°	223.3	218.0	226.9	234.0	237.5
72.5°	182.6	180.8	184.3	189.7	191.4
75°	148.9	143.6	145.3	147.1	150.7
77.5°	118.8	109.9	111.7	109.9	111.7
80°	86.9	79.8	79.8	78.0	76.2
82.5°	58.5	54.9	51.4	47.9	46.1
85°	35.5	30.1	26.6	23.0	23.0
87.5°	14.2	10.6	8.9	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)