

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: P296580

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296580
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-LD5-25-RDP-UNV-L82765-W2A1-U-2700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1834.0 lumens
Efficiency: N/A
Efficacy: 97.1 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

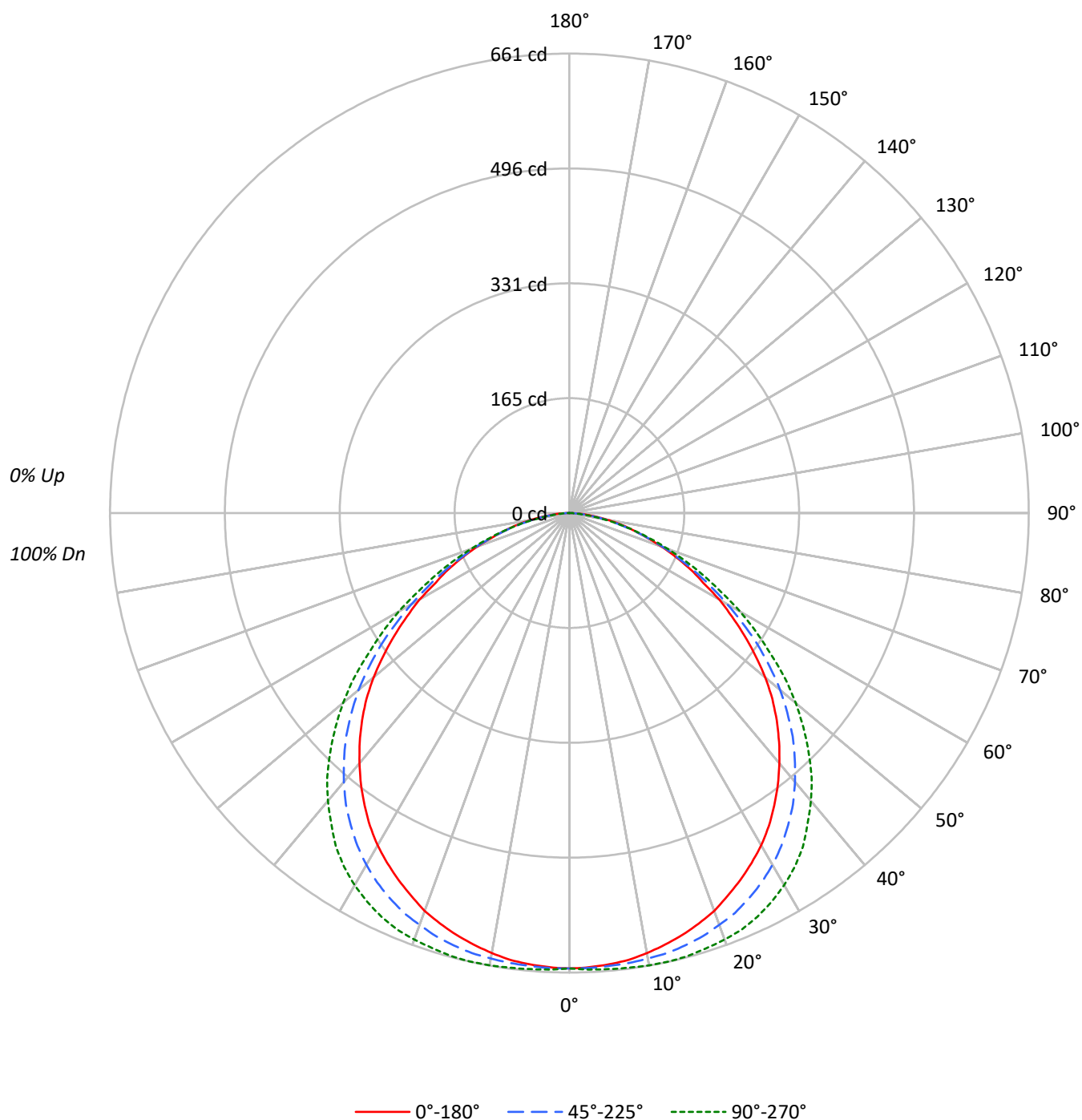
Input Watts (W): 18.879
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	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		
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1763	1763	1763
5°	1760	1767	1779
10°	1756	1778	1805
15°	1750	1794	1838
20°	1744	1805	1870
25°	1729	1815	1902
30°	1715	1816	1921
35°	1688	1802	1924
40°	1651	1773	1899
45°	1605	1729	1853
50°	1540	1658	1780
55°	1442	1552	1658
60°	1340	1413	1527
65°	1228	1272	1357
70°	1112	1130	1183
75°	979	957	992
80°	852	783	747
85°	692	519	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	3.4
10°-20°	181.9	9.9
20°-30°	281.8	15.4
30°-40°	343.0	18.7
40°-50°	349.3	19.0
50°-60°	294.6	16.1
60°-70°	199.3	10.9
70°-80°	99.6	5.4
80°-90°	22.2	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°	526.1	28.7
0°-40°	869.1	47.4
0°-60°	1513.0	82.5
0°-90°	1834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1834.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	652	653	654	657	658	62
15°	628	633	644	655	660	177
25°	582	591	611	632	640	268
35°	514	525	548	574	586	321
45°	422	430	454	478	487	325
55°	307	312	331	347	353	275
65°	193	190	200	209	213	191
75°	94	91	92	93	95	101
85°	22	19	17	15	15	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	655.1	655.1	655.1	655.1	655.1
2.5°	654.0	654.0	655.1	656.2	657.4
5°	651.7	652.9	654.0	657.4	658.5
7.5°	648.4	649.5	652.9	657.4	659.6
10°	642.8	645.0	650.6	657.4	660.7
12.5°	636.0	639.4	648.4	656.2	660.7
15°	628.2	632.7	643.9	655.1	659.6
17.5°	619.2	624.8	638.3	650.6	656.2
20°	609.1	615.8	630.4	646.1	652.9
22.5°	595.7	604.6	622.6	640.5	648.4
25°	582.2	591.2	611.4	631.6	640.5
27.5°	567.6	577.7	599.0	621.5	630.4
30°	551.9	560.9	584.4	608.0	618.1
32.5°	534.0	542.9	567.6	592.3	603.5
35°	513.8	525.0	548.5	574.3	585.6
37.5°	492.5	502.6	528.4	553.0	563.1
40°	470.0	480.1	504.8	530.6	540.7
42.5°	446.5	456.6	480.1	504.8	516.0
45°	421.8	429.6	454.3	477.9	486.8
47.5°	396.0	401.6	425.1	447.6	456.6
50°	367.9	373.5	396.0	416.2	425.1
52.5°	337.7	342.1	363.5	381.4	391.5
55°	307.4	311.9	330.9	346.6	353.4
57.5°	277.1	279.3	296.1	311.9	318.6
60°	249.0	249.0	262.5	274.8	283.8
62.5°	216.5	219.9	230.0	242.3	245.7
65°	192.9	189.6	199.7	208.6	213.1
67.5°	166.0	163.8	170.5	178.4	180.6
70°	141.3	138.0	143.6	148.1	150.3
72.5°	115.5	114.4	116.7	120.0	121.2
75°	94.2	90.9	92.0	93.1	95.4
77.5°	75.2	69.5	70.7	69.5	70.7
80°	55.0	50.5	50.5	49.4	48.2
82.5°	37.0	34.8	32.5	30.3	29.2
85°	22.4	19.1	16.8	14.6	14.6
87.5°	9.0	6.7	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)