

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: P296582

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296582
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-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1953.0 lumens
Efficiency: N/A
Efficacy: 102.9 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

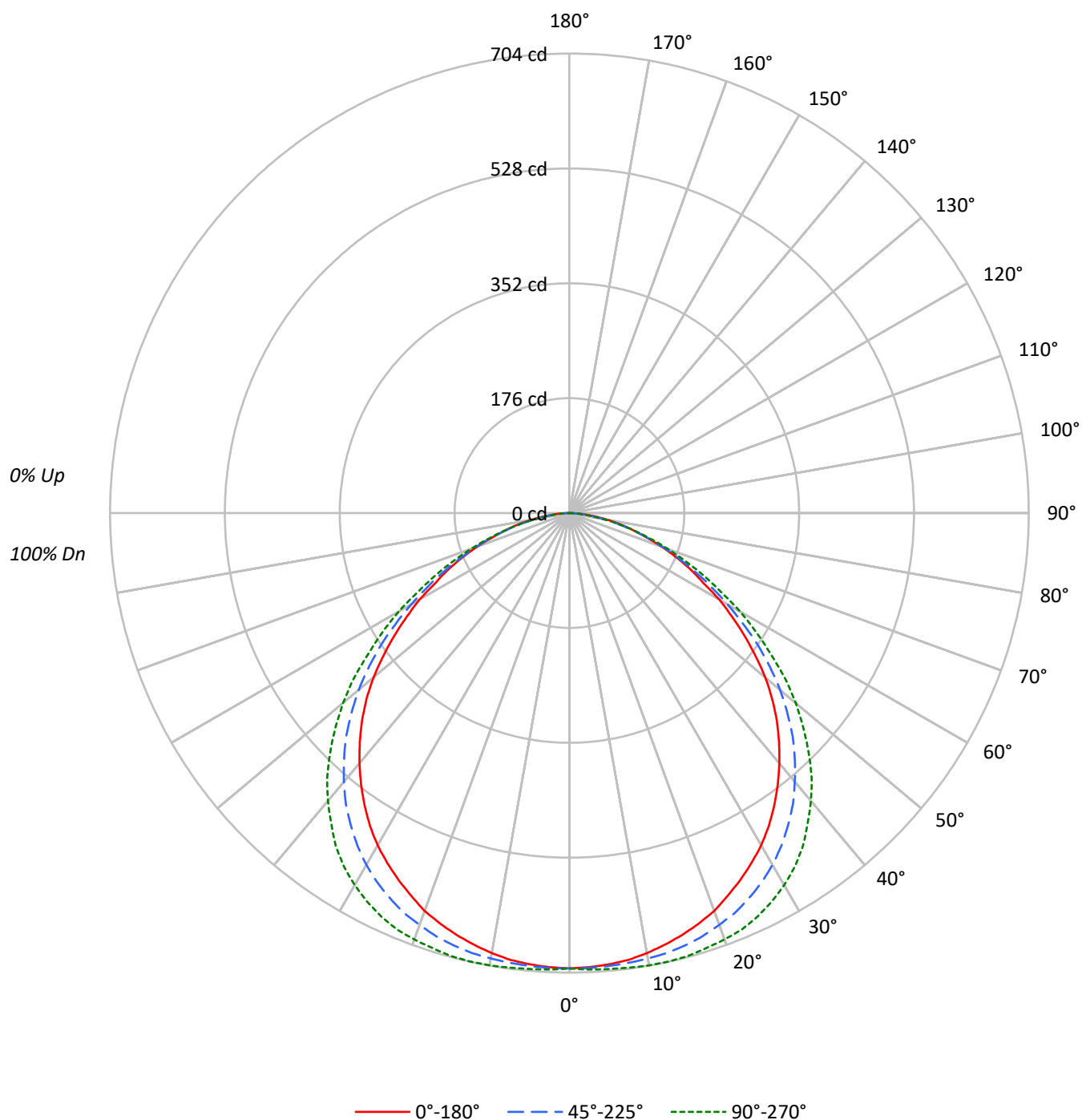
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1877	1877	1877
5°	1875	1881	1894
10°	1870	1893	1923
15°	1863	1910	1957
20°	1857	1922	1991
25°	1841	1933	2025
30°	1826	1934	2045
35°	1797	1919	2049
40°	1758	1888	2023
45°	1709	1841	1973
50°	1640	1765	1895
55°	1536	1653	1765
60°	1427	1504	1626
65°	1309	1354	1445
70°	1184	1203	1260
75°	1043	1019	1055
80°	907	834	797
85°	738	553	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	3.4
10°-20°	193.7	9.9
20°-30°	300.1	15.4
30°-40°	365.2	18.7
40°-50°	372.0	19.0
50°-60°	313.7	16.1
60°-70°	212.2	10.9
70°-80°	106.0	5.4
80°-90°	23.6	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°	560.2	28.7
0°-40°	925.5	47.4
0°-60°	1611.2	82.5
0°-90°	1953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	694	695	696	700	701	66
15°	669	674	686	698	702	189
25°	620	630	651	672	682	286
35°	547	559	584	612	624	342
45°	449	458	484	509	518	346
55°	327	332	352	369	376	293
65°	206	202	213	222	227	203
75°	100	97	98	99	102	108
85°	24	20	18	16	16	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697.6	697.6	697.6	697.6	697.6
2.5°	696.4	696.4	697.6	698.8	700.0
5°	694.0	695.2	696.4	700.0	701.2
7.5°	690.5	691.6	695.2	700.0	702.4
10°	684.5	686.9	692.8	700.0	703.6
12.5°	677.3	680.9	690.5	698.8	703.6
15°	668.9	673.7	685.7	697.6	702.4
17.5°	659.4	665.4	679.7	692.8	698.8
20°	648.6	655.8	671.3	688.1	695.2
22.5°	634.3	643.9	663.0	682.1	690.5
25°	620.0	629.5	651.0	672.5	682.1
27.5°	604.4	615.2	637.9	661.8	671.3
30°	587.7	597.3	622.4	647.4	658.2
32.5°	568.6	578.2	604.4	630.7	642.7
35°	547.1	559.1	584.1	611.6	623.6
37.5°	524.4	535.2	562.6	588.9	599.7
40°	500.5	511.3	537.5	565.0	575.8
42.5°	475.4	486.2	511.3	537.5	549.5
45°	449.2	457.5	483.8	508.9	518.4
47.5°	421.7	427.6	452.7	476.6	486.2
50°	391.8	397.8	421.7	443.2	452.7
52.5°	359.6	364.3	387.0	406.1	416.9
55°	327.3	332.1	352.4	369.1	376.3
57.5°	295.1	297.4	315.4	332.1	339.3
60°	265.2	265.2	279.5	292.7	302.2
62.5°	230.5	234.1	244.9	258.0	261.6
65°	205.5	201.9	212.6	222.2	227.0
67.5°	176.8	174.4	181.6	189.9	192.3
70°	150.5	146.9	152.9	157.7	160.1
72.5°	123.0	121.8	124.2	127.8	129.0
75°	100.3	96.8	98.0	99.1	101.5
77.5°	80.0	74.1	75.3	74.1	75.3
80°	58.5	53.8	53.8	52.6	51.4
82.5°	39.4	37.0	34.6	32.3	31.1
85°	23.9	20.3	17.9	15.5	15.5
87.5°	9.6	7.2	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)