

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: P296588

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296588
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-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2090.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

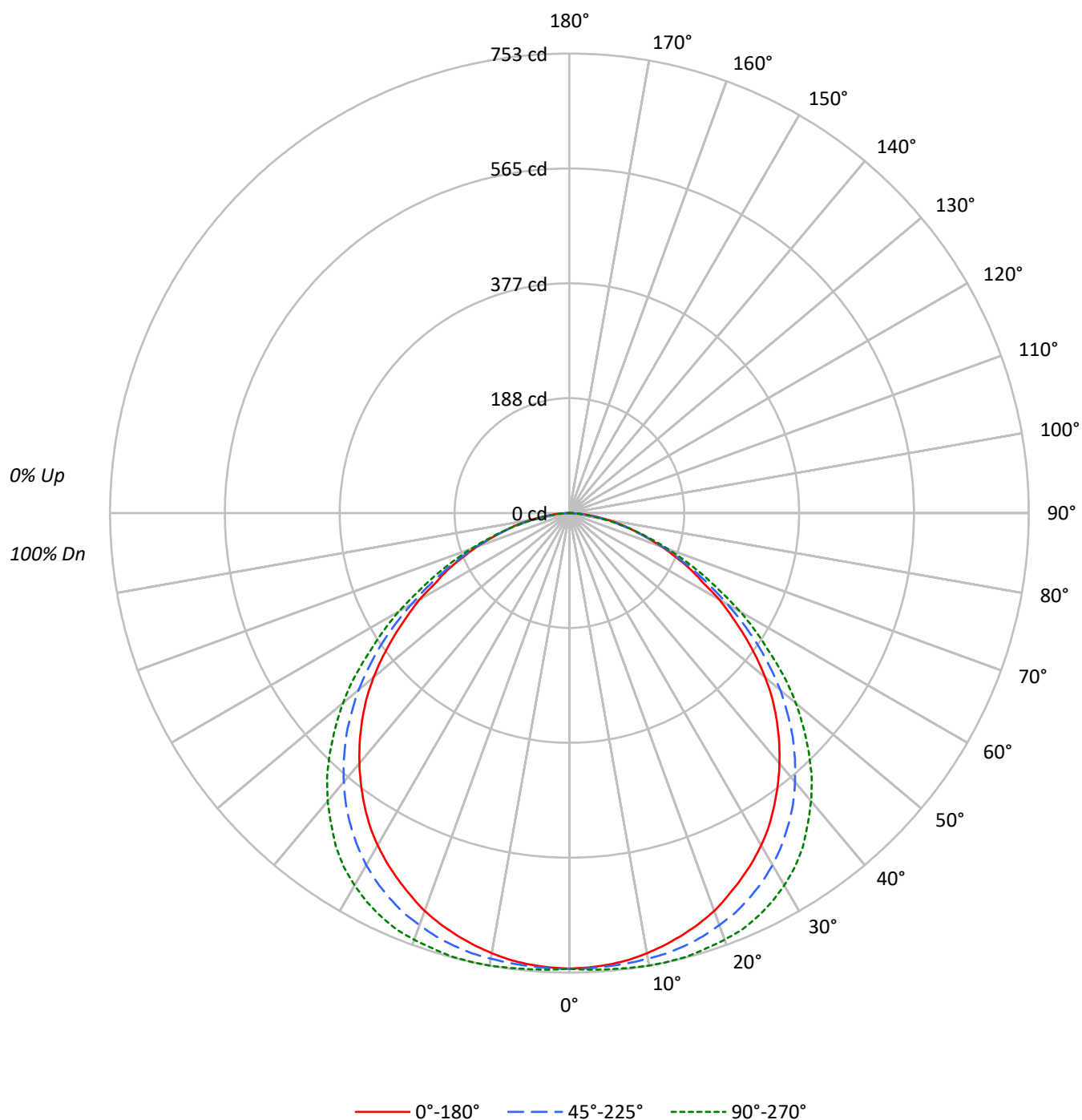
Input Watts (W): 19.716
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2009	2009	2009
5°	2006	2013	2027
10°	2002	2026	2057
15°	1994	2044	2094
20°	1988	2057	2131
25°	1970	2069	2167
30°	1954	2069	2189
35°	1923	2054	2192
40°	1881	2021	2165
45°	1829	1970	2111
50°	1755	1889	2028
55°	1643	1769	1889
60°	1527	1610	1741
65°	1400	1449	1547
70°	1268	1287	1348
75°	1117	1090	1130
80°	970	891	852
85°	790	593	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.4
10°-20°	207.3	9.9
20°-30°	321.1	15.4
30°-40°	390.9	18.7
40°-50°	398.1	19.0
50°-60°	335.7	16.1
60°-70°	227.1	10.9
70°-80°	113.5	5.4
80°-90°	25.2	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°	599.5	28.7
0°-40°	990.4	47.4
0°-60°	1724.2	82.5
0°-90°	2090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	743	744	745	749	750	71
15°	716	721	734	747	752	202
25°	664	674	697	720	730	306
35°	586	598	625	654	667	366
45°	481	490	518	545	555	370
55°	350	355	377	395	403	313
65°	220	216	228	238	243	217
75°	107	104	105	106	109	115
85°	26	22	19	17	17	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.6	746.6	746.6	746.6	746.6
2.5°	745.3	745.3	746.6	747.8	749.1
5°	742.7	744.0	745.3	749.1	750.4
7.5°	738.9	740.2	744.0	749.1	751.7
10°	732.5	735.0	741.4	749.1	752.9
12.5°	724.8	728.7	738.9	747.8	752.9
15°	715.9	721.0	733.8	746.6	751.7
17.5°	705.6	712.0	727.4	741.4	747.8
20°	694.1	701.8	718.4	736.3	744.0
22.5°	678.8	689.0	709.5	729.9	738.9
25°	663.5	673.7	696.7	719.7	729.9
27.5°	646.8	658.3	682.6	708.2	718.4
30°	628.9	639.2	666.0	692.9	704.4
32.5°	608.5	618.7	646.8	675.0	687.8
35°	585.5	598.3	625.1	654.5	667.3
37.5°	561.2	572.7	602.1	630.2	641.7
40°	535.6	547.1	575.3	604.7	616.2
42.5°	508.8	520.3	547.1	575.3	588.0
45°	480.7	489.6	517.7	544.6	554.8
47.5°	451.3	457.6	484.5	510.1	520.3
50°	419.3	425.7	451.3	474.3	484.5
52.5°	384.8	389.9	414.2	434.6	446.1
55°	350.3	355.4	377.1	395.0	402.7
57.5°	315.8	318.3	337.5	355.4	363.1
60°	283.8	283.8	299.1	313.2	323.4
62.5°	246.7	250.6	262.1	276.1	280.0
65°	219.9	216.0	227.5	237.8	242.9
67.5°	189.2	186.6	194.3	203.3	205.8
70°	161.1	157.2	163.6	168.7	171.3
72.5°	131.7	130.4	132.9	136.8	138.1
75°	107.4	103.5	104.8	106.1	108.7
77.5°	85.6	79.3	80.5	79.3	80.5
80°	62.6	57.5	57.5	56.2	55.0
82.5°	42.2	39.6	37.1	34.5	33.2
85°	25.6	21.7	19.2	16.6	16.6
87.5°	10.2	7.7	6.4	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)