

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: P296498

Luminaire Tested: **22RLN-LD5-25-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-25-UNV-L92765-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2109.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

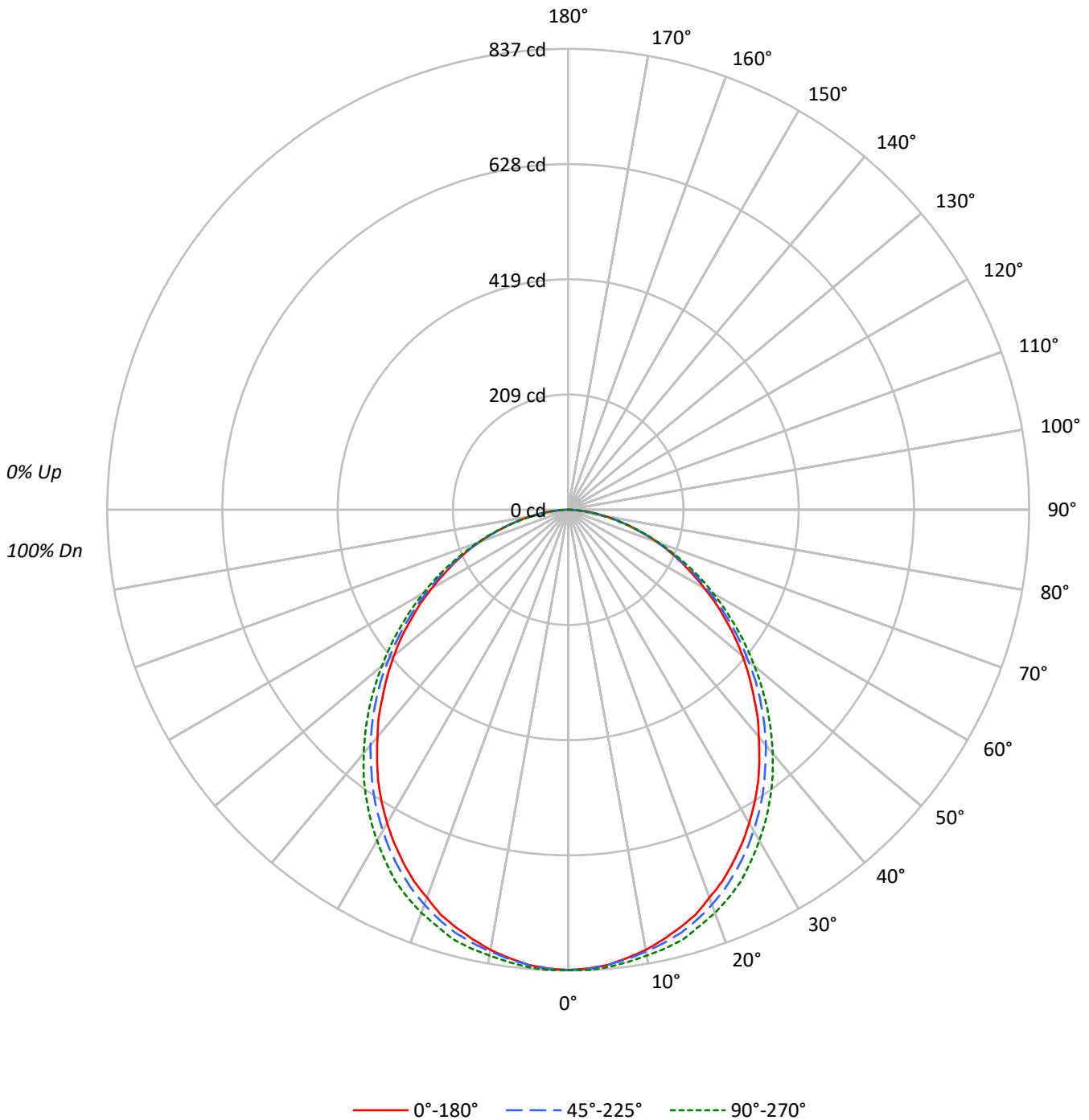
Input Watts (W): 18.879
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	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	102	99	95	98	95	92	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	71																												
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61																												
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52																												
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46																												
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40																												
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36																												
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32																												
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29																												
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2250	2250	2250
5°	2241	2241	2253
10°	2218	2227	2247
15°	2188	2215	2250
20°	2147	2186	2231
25°	2101	2145	2207
30°	2042	2091	2156
35°	1976	2031	2100
40°	1891	1962	2028
45°	1809	1881	1945
50°	1730	1787	1849
55°	1638	1687	1746
60°	1539	1579	1636
65°	1446	1473	1520
70°	1349	1349	1374
75°	1203	1203	1203
80°	1058	1026	1026
85°	843	812	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.7
10°-20°	224.1	10.6
20°-30°	333.0	15.8
30°-40°	386.4	18.3
40°-50°	380.5	18.0
50°-60°	322.0	15.3
60°-70°	229.6	10.9
70°-80°	123.4	5.9
80°-90°	31.1	1.5
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°	635.9	30.2
0°-40°	1022.4	48.5
0°-60°	1724.8	81.8
0°-90°	2109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	830	830	830	833	834	79
15°	786	788	795	802	808	221
25°	708	710	722	736	743	326
35°	602	602	618	633	639	375
45°	475	478	494	506	511	367
55°	349	350	360	369	372	313
65°	227	227	231	236	239	225
75°	116	115	116	116	116	124
85°	27	26	26	24	24	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.0	836.0	836.0	836.0	836.0
2.5°	833.9	833.9	834.9	836.0	837.0
5°	829.7	829.7	829.7	832.8	833.9
7.5°	821.2	822.3	823.3	826.5	828.6
10°	811.8	812.8	814.9	820.2	822.3
12.5°	799.2	802.3	805.5	812.8	816.0
15°	785.5	787.6	795.0	802.3	807.6
17.5°	770.8	771.8	780.2	790.7	792.8
20°	749.7	752.9	763.4	773.9	779.2
22.5°	730.8	732.9	744.5	758.1	762.4
25°	707.7	709.8	722.4	736.1	743.4
27.5°	683.5	685.6	699.3	714.0	719.2
30°	657.2	659.3	673.0	688.7	694.0
32.5°	629.9	632.0	646.7	660.4	667.7
35°	601.5	602.5	618.3	633.0	639.3
37.5°	569.9	573.1	587.8	602.5	609.9
40°	538.4	541.5	558.4	572.0	577.3
42.5°	508.9	513.1	526.8	539.4	544.7
45°	475.3	478.4	494.2	505.8	511.0
47.5°	444.8	447.9	461.6	473.2	476.3
50°	413.2	415.4	426.9	437.4	441.6
52.5°	381.7	382.8	393.3	403.8	406.9
55°	349.1	350.2	359.6	369.1	372.2
57.5°	318.6	318.6	327.0	334.4	337.5
60°	286.0	286.0	293.4	300.7	303.9
62.5°	255.5	255.5	262.9	268.1	272.3
65°	227.1	227.1	231.3	235.5	238.7
67.5°	199.8	196.6	200.8	206.1	205.0
70°	171.4	168.2	171.4	173.5	174.6
72.5°	143.0	140.9	143.0	144.1	146.2
75°	115.7	114.6	115.7	115.7	115.7
77.5°	92.5	89.4	91.5	90.4	89.4
80°	68.3	67.3	66.2	65.2	66.2
82.5°	47.3	46.3	46.3	44.2	44.2
85°	27.3	26.3	26.3	24.2	24.2
87.5°	10.5	10.5	9.5	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)