

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: P296546

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296546
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-L83050-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1889.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

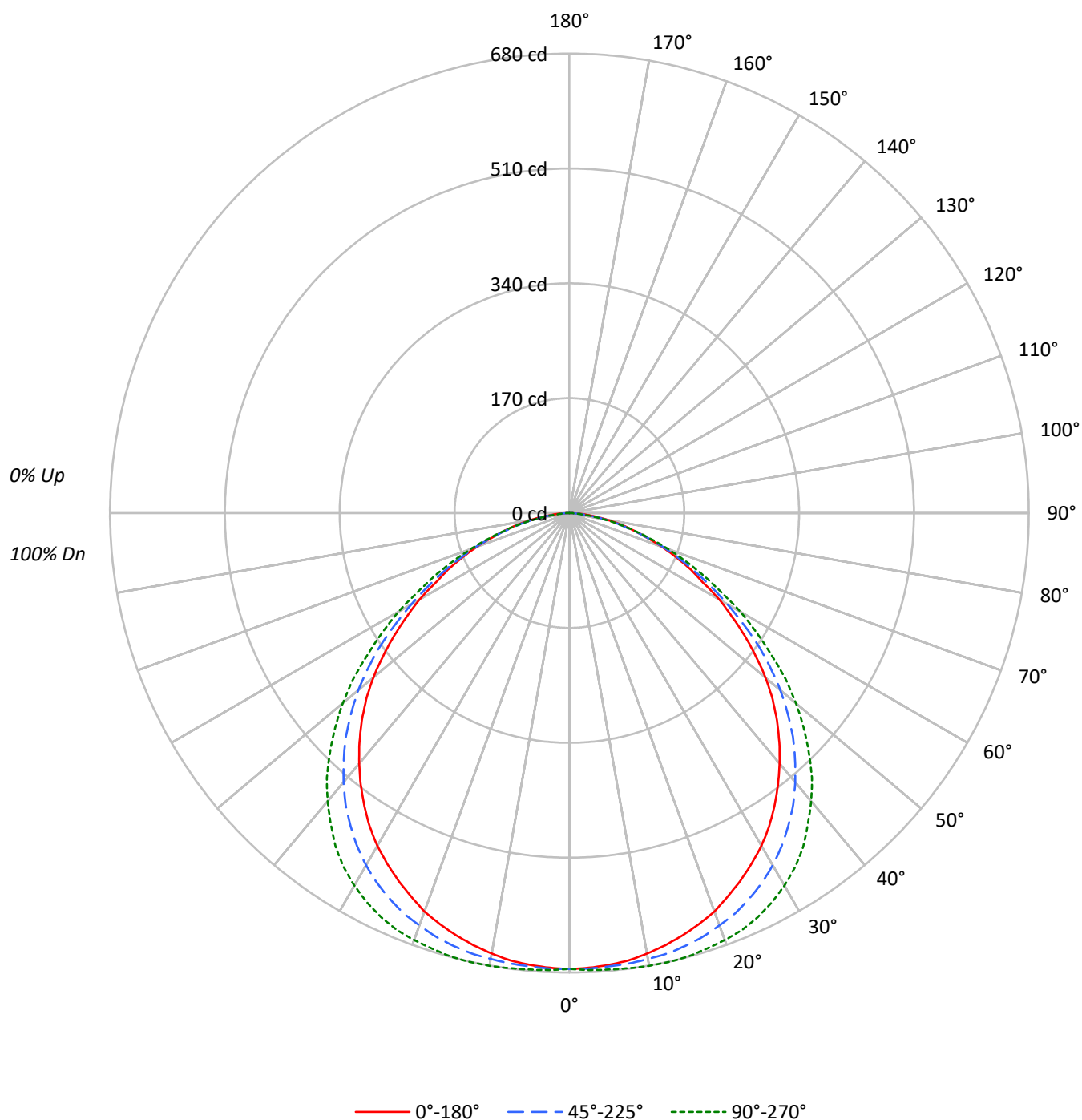
Input Watts (W): 18.879
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
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°	1816	1816	1816
5°	1813	1820	1832
10°	1809	1831	1859
15°	1802	1848	1893
20°	1797	1859	1926
25°	1781	1870	1959
30°	1766	1871	1978
35°	1738	1856	1981
40°	1701	1826	1956
45°	1653	1781	1908
50°	1587	1708	1833
55°	1485	1599	1708
60°	1380	1455	1573
65°	1265	1310	1398
70°	1146	1164	1218
75°	1010	985	1021
80°	877	806	770
85°	713	534	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	3.4
10°-20°	187.3	9.9
20°-30°	290.3	15.4
30°-40°	353.3	18.7
40°-50°	359.8	19.0
50°-60°	303.4	16.1
60°-70°	205.3	10.9
70°-80°	102.6	5.4
80°-90°	22.8	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°	541.9	28.7
0°-40°	895.1	47.4
0°-60°	1558.4	82.5
0°-90°	1889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	671	672	674	677	678	64
15°	647	652	663	675	679	183
25°	600	609	630	650	660	276
35°	529	541	565	592	603	331
45°	434	442	468	492	501	335
55°	317	321	341	357	364	283
65°	199	195	206	215	220	196
75°	97	94	95	96	98	104
85°	23	20	17	15	15	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	674.8	674.8	674.8	674.8	674.8
2.5°	673.6	673.6	674.8	675.9	677.1
5°	671.3	672.4	673.6	677.1	678.2
7.5°	667.8	669.0	672.4	677.1	679.4
10°	662.0	664.4	670.1	677.1	680.5
12.5°	655.1	658.6	667.8	675.9	680.5
15°	647.0	651.6	663.2	674.8	679.4
17.5°	637.8	643.6	657.4	670.1	675.9
20°	627.4	634.3	649.3	665.5	672.4
22.5°	613.5	622.8	641.3	659.7	667.8
25°	599.7	608.9	629.7	650.5	659.7
27.5°	584.6	595.0	617.0	640.1	649.3
30°	568.5	577.7	602.0	626.2	636.6
32.5°	550.0	559.2	584.6	610.1	621.6
35°	529.2	540.7	565.0	591.6	603.1
37.5°	507.2	517.6	544.2	569.6	580.0
40°	484.1	494.5	519.9	546.5	556.9
42.5°	459.9	470.3	494.5	519.9	531.5
45°	434.4	442.5	467.9	492.2	501.4
47.5°	407.9	413.6	437.9	461.0	470.3
50°	379.0	384.8	407.9	428.7	437.9
52.5°	347.8	352.4	374.4	392.8	403.2
55°	316.6	321.2	340.8	357.0	364.0
57.5°	285.4	287.7	305.0	321.2	328.1
60°	256.5	256.5	270.4	283.1	292.3
62.5°	223.0	226.5	236.9	249.6	253.0
65°	198.7	195.3	205.7	214.9	219.5
67.5°	171.0	168.7	175.6	183.7	186.0
70°	145.6	142.1	147.9	152.5	154.8
72.5°	119.0	117.9	120.2	123.6	124.8
75°	97.1	93.6	94.7	95.9	98.2
77.5°	77.4	71.6	72.8	71.6	72.8
80°	56.6	52.0	52.0	50.8	49.7
82.5°	38.1	35.8	33.5	31.2	30.0
85°	23.1	19.6	17.3	15.0	15.0
87.5°	9.2	6.9	5.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)