

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: P296676

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296676
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-LD5-31-RDP-UNV-L92765-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2253.0 lumens
Efficiency: N/A
Efficacy: 91.1 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

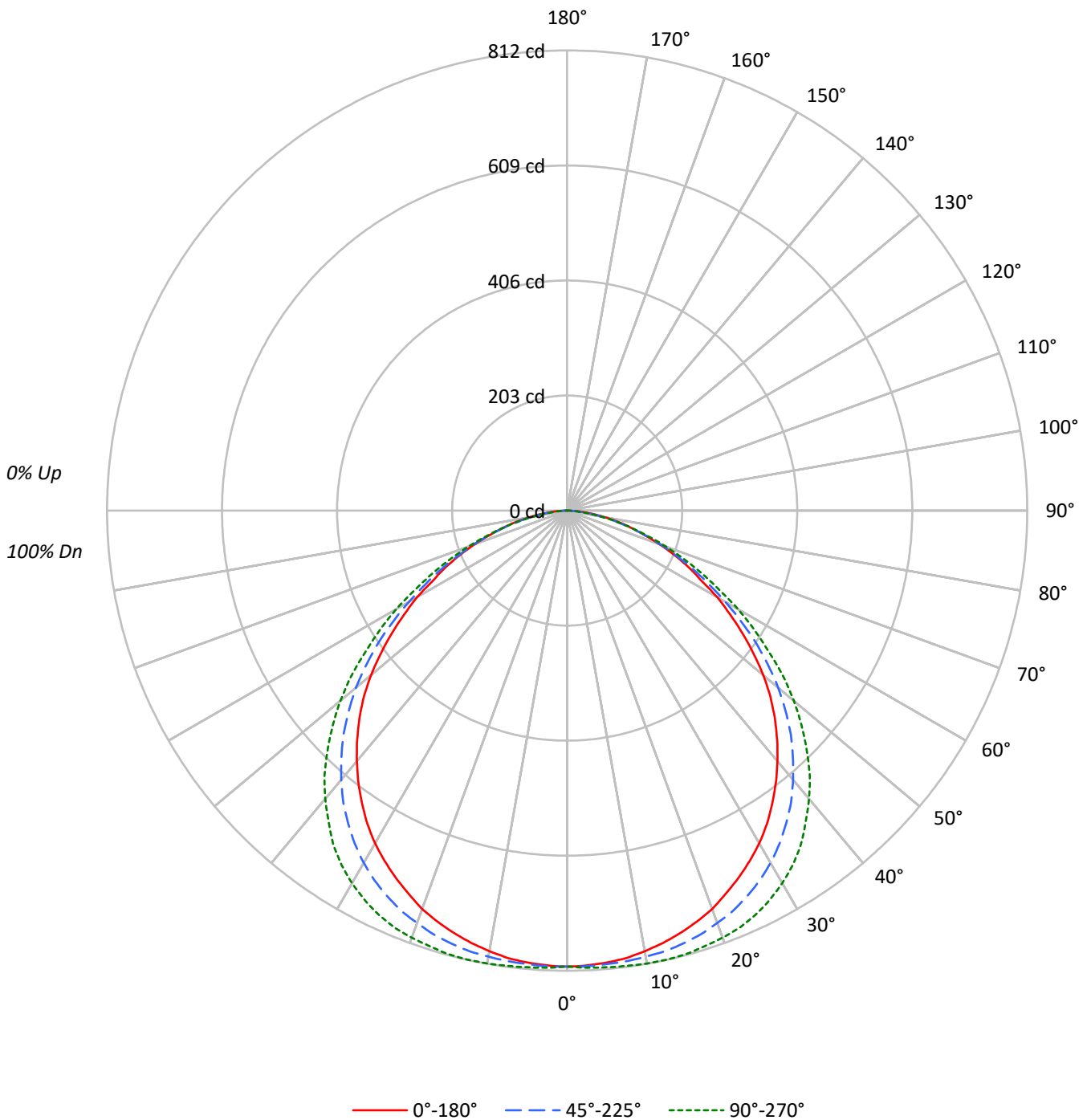
Input Watts (W): 24.738
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2166	2166	2166
5°	2163	2170	2185
10°	2158	2184	2218
15°	2150	2204	2257
20°	2143	2218	2297
25°	2124	2230	2336
30°	2107	2231	2359
35°	2073	2214	2363
40°	2028	2178	2333
45°	1972	2124	2276
50°	1892	2037	2187
55°	1772	1907	2037
60°	1646	1736	1876
65°	1509	1562	1667
70°	1366	1388	1453
75°	1204	1175	1218
80°	1046	961	919
85°	852	639	553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	3.4
10°-20°	223.5	9.9
20°-30°	346.2	15.4
30°-40°	421.3	18.7
40°-50°	429.1	19.0
50°-60°	361.9	16.1
60°-70°	244.8	10.9
70°-80°	122.3	5.4
80°-90°	27.2	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°	646.3	28.7
0°-40°	1067.6	47.4
0°-60°	1858.7	82.5
0°-90°	2253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	801	802	803	808	809	76
15°	772	777	791	805	810	218
25°	715	726	751	776	787	330
35°	631	645	674	706	719	394
45°	518	528	558	587	598	399
55°	378	383	406	426	434	338
65°	237	233	245	256	262	234
75°	116	112	113	114	117	124
85°	28	23	21	18	18	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.8	804.8	804.8	804.8	804.8
2.5°	803.4	803.4	804.8	806.2	807.5
5°	800.6	802.0	803.4	807.5	808.9
7.5°	796.5	797.9	802.0	807.5	810.3
10°	789.6	792.4	799.3	807.5	811.7
12.5°	781.4	785.5	796.5	806.2	811.7
15°	771.7	777.2	791.0	804.8	810.3
17.5°	760.7	767.6	784.1	799.3	806.2
20°	748.3	756.5	774.5	793.8	802.0
22.5°	731.7	742.8	764.8	786.9	796.5
25°	715.2	726.2	751.0	775.8	786.9
27.5°	697.3	709.7	735.9	763.4	774.5
30°	678.0	689.0	718.0	746.9	759.3
32.5°	656.0	667.0	697.3	727.6	741.4
35°	631.1	644.9	673.9	705.6	719.3
37.5°	605.0	617.4	649.1	679.4	691.8
40°	577.4	589.8	620.1	651.8	664.2
42.5°	548.5	560.9	589.8	620.1	633.9
45°	518.1	527.8	558.1	587.0	598.1
47.5°	486.5	493.3	522.3	549.8	560.9
50°	452.0	458.9	486.5	511.3	522.3
52.5°	414.8	420.3	446.5	468.5	480.9
55°	377.6	383.1	406.5	425.8	434.1
57.5°	340.4	343.1	363.8	383.1	391.4
60°	305.9	305.9	322.5	337.6	348.6
62.5°	266.0	270.1	282.5	297.7	301.8
65°	237.0	232.9	245.3	256.3	261.8
67.5°	204.0	201.2	209.5	219.1	221.9
70°	173.6	169.5	176.4	181.9	184.7
72.5°	141.9	140.6	143.3	147.5	148.8
75°	115.8	111.6	113.0	114.4	117.1
77.5°	92.3	85.4	86.8	85.4	86.8
80°	67.5	62.0	62.0	60.6	59.3
82.5°	45.5	42.7	40.0	37.2	35.8
85°	27.6	23.4	20.7	17.9	17.9
87.5°	11.0	8.3	6.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)