

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: P296552

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296552
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-L83050-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: 2551.0 lumens
Efficiency: N/A
Efficacy: 104.3 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

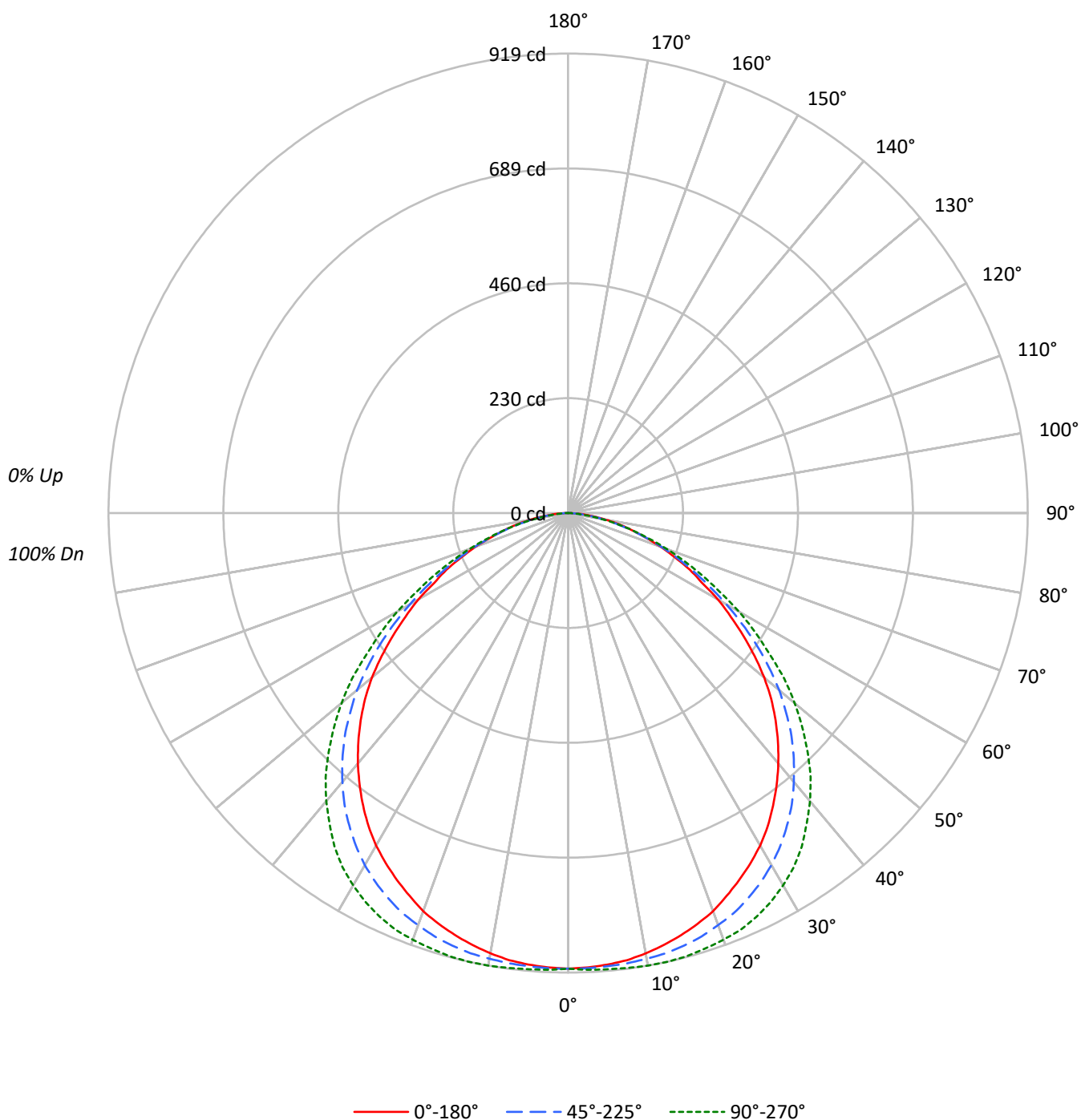
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	52	40	33	27	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2452	2452	2452
5°	2449	2457	2474
10°	2443	2473	2511
15°	2434	2495	2556
20°	2426	2511	2601
25°	2404	2525	2645
30°	2385	2526	2671
35°	2348	2507	2676
40°	2297	2466	2642
45°	2233	2405	2577
50°	2143	2306	2476
55°	2006	2160	2306
60°	1864	1965	2125
65°	1709	1768	1888
70°	1547	1571	1645
75°	1363	1330	1379
80°	1185	1088	1040
85°	963	722	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	3.4
10°-20°	253.0	9.9
20°-30°	392.0	15.4
30°-40°	477.1	18.7
40°-50°	485.9	19.0
50°-60°	409.8	16.1
60°-70°	277.2	10.9
70°-80°	138.5	5.4
80°-90°	30.8	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°	731.8	28.7
0°-40°	1208.8	47.4
0°-60°	2104.5	82.5
0°-90°	2551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	911	911	911	911	911	
5°	906	908	910	914	916	86
15°	874	880	896	911	918	247
25°	810	822	850	878	891	373
35°	715	730	763	799	814	447
45°	587	598	632	665	677	452
55°	428	434	460	482	492	382
65°	268	264	278	290	296	265
75°	131	126	128	130	133	140
85°	31	26	23	20	20	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	911.2	911.2	911.2	911.2	911.2
2.5°	909.7	909.7	911.2	912.8	914.3
5°	906.5	908.1	909.7	914.3	915.9
7.5°	901.9	903.4	908.1	914.3	917.5
10°	894.1	897.2	905.0	914.3	919.0
12.5°	884.7	889.4	901.9	912.8	919.0
15°	873.8	880.0	895.6	911.2	917.5
17.5°	861.3	869.1	887.8	905.0	912.8
20°	847.3	856.6	876.9	898.7	908.1
22.5°	828.5	841.0	866.0	890.9	901.9
25°	809.8	822.3	850.4	878.5	890.9
27.5°	789.5	803.6	833.2	864.4	876.9
30°	767.7	780.2	812.9	845.7	859.7
32.5°	742.7	755.2	789.5	823.8	839.5
35°	714.6	730.2	763.0	798.9	814.5
37.5°	685.0	699.0	734.9	769.2	783.3
40°	653.8	667.8	702.1	738.0	752.1
42.5°	621.0	635.0	667.8	702.1	717.7
45°	586.7	597.6	631.9	664.7	677.2
47.5°	550.8	558.6	591.4	622.6	635.0
50°	511.8	519.6	550.8	578.9	591.4
52.5°	469.7	475.9	505.5	530.5	544.6
55°	427.5	433.8	460.3	482.1	491.5
57.5°	385.4	388.5	411.9	433.8	443.1
60°	346.4	346.4	365.1	382.3	394.8
62.5°	301.1	305.8	319.9	337.0	341.7
65°	268.4	263.7	277.7	290.2	296.5
67.5°	230.9	227.8	237.2	248.1	251.2
70°	196.6	191.9	199.7	206.0	209.1
72.5°	160.7	159.2	162.3	167.0	168.5
75°	131.1	126.4	127.9	129.5	132.6
77.5°	104.5	96.7	98.3	96.7	98.3
80°	76.5	70.2	70.2	68.7	67.1
82.5°	51.5	48.4	45.2	42.1	40.6
85°	31.2	26.5	23.4	20.3	20.3
87.5°	12.5	9.4	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)