

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: P296572

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296572
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-LD5-20-RDP-UNV-L82765-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: 1536.0 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

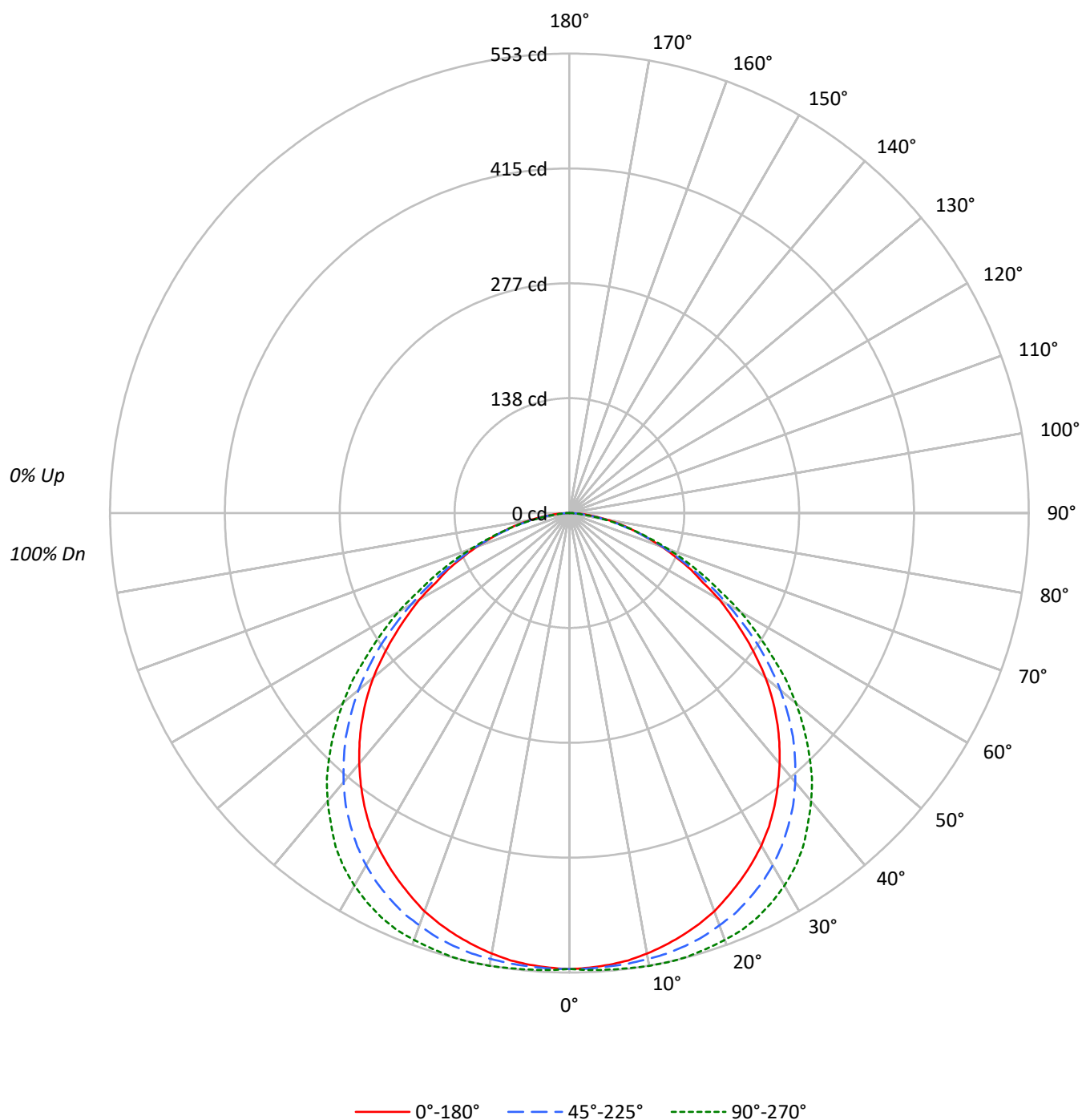
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1477	1477	1477
5°	1474	1479	1490
10°	1471	1489	1512
15°	1466	1502	1539
20°	1461	1512	1566
25°	1448	1520	1593
30°	1436	1521	1609
35°	1414	1509	1611
40°	1383	1485	1591
45°	1344	1448	1552
50°	1290	1388	1491
55°	1208	1301	1388
60°	1123	1183	1279
65°	1029	1065	1137
70°	932	947	991
75°	820	801	831
80°	713	656	626
85°	580	435	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	3.4
10°-20°	152.3	9.9
20°-30°	236.0	15.4
30°-40°	287.3	18.7
40°-50°	292.6	19.0
50°-60°	246.7	16.1
60°-70°	166.9	10.9
70°-80°	83.4	5.4
80°-90°	18.5	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°	440.6	28.7
0°-40°	727.9	47.4
0°-60°	1267.2	82.5
0°-90°	1536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	549	549	549	549	549	
5°	546	547	548	550	552	52
15°	526	530	539	549	552	149
25°	488	495	512	529	536	225
35°	430	440	459	481	490	269
45°	353	360	380	400	408	272
55°	257	261	277	290	296	230
65°	162	159	167	175	178	160
75°	79	76	77	78	80	85
85°	19	16	14	12	12	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	548.7	548.7	548.7	548.7	548.7
2.5°	547.7	547.7	548.7	549.6	550.5
5°	545.8	546.8	547.7	550.5	551.5
7.5°	543.0	544.0	546.8	550.5	552.4
10°	538.3	540.2	544.9	550.5	553.4
12.5°	532.7	535.5	543.0	549.6	553.4
15°	526.1	529.9	539.3	548.7	552.4
17.5°	518.6	523.3	534.6	544.9	549.6
20°	510.1	515.8	528.0	541.1	546.8
22.5°	498.9	506.4	521.4	536.5	543.0
25°	487.6	495.1	512.0	528.9	536.5
27.5°	475.4	483.8	501.7	520.5	528.0
30°	462.2	469.7	489.5	509.2	517.7
32.5°	447.2	454.7	475.4	496.1	505.4
35°	430.3	439.7	459.4	481.0	490.4
37.5°	412.4	420.9	442.5	463.2	471.6
40°	393.6	402.1	422.8	444.4	452.8
42.5°	373.9	382.4	402.1	422.8	432.2
45°	353.2	359.8	380.5	400.2	407.7
47.5°	331.6	336.3	356.1	374.9	382.4
50°	308.2	312.9	331.6	348.6	356.1
52.5°	282.8	286.5	304.4	319.4	327.9
55°	257.4	261.2	277.2	290.3	295.9
57.5°	232.1	233.9	248.0	261.2	266.8
60°	208.6	208.6	219.8	230.2	237.7
62.5°	181.3	184.1	192.6	202.9	205.7
65°	161.6	158.8	167.2	174.7	178.5
67.5°	139.0	137.2	142.8	149.4	151.3
70°	118.4	115.6	120.3	124.0	125.9
72.5°	96.8	95.8	97.7	100.5	101.5
75°	78.9	76.1	77.0	78.0	79.9
77.5°	62.9	58.2	59.2	58.2	59.2
80°	46.0	42.3	42.3	41.3	40.4
82.5°	31.0	29.1	27.2	25.4	24.4
85°	18.8	16.0	14.1	12.2	12.2
87.5°	7.5	5.6	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)