

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: P296541

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296541
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-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: 1537.0 lumens
Efficiency: N/A
Efficacy: 99.6 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

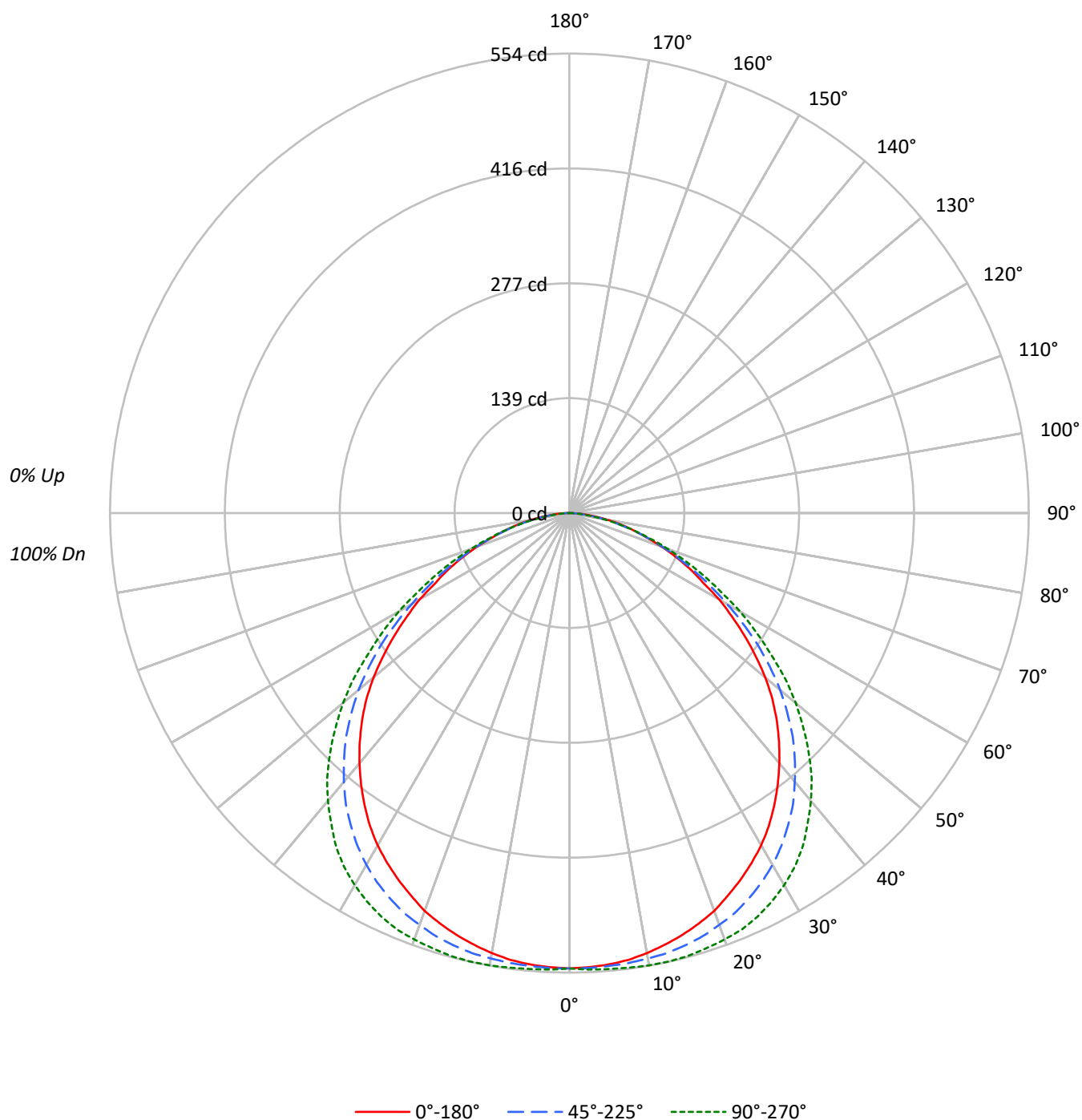
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1477	1477	1477
5°	1475	1481	1491
10°	1472	1490	1513
15°	1467	1503	1540
20°	1462	1513	1567
25°	1449	1521	1594
30°	1437	1522	1610
35°	1415	1510	1612
40°	1384	1486	1592
45°	1345	1449	1553
50°	1291	1389	1492
55°	1209	1301	1389
60°	1123	1184	1280
65°	1030	1065	1137
70°	932	947	991
75°	821	802	831
80°	714	656	626
85°	580	435	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	3.4
10°-20°	152.4	9.9
20°-30°	236.2	15.4
30°-40°	287.4	18.7
40°-50°	292.8	19.0
50°-60°	246.9	16.1
60°-70°	167.0	10.9
70°-80°	83.5	5.4
80°-90°	18.6	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°	440.9	28.7
0°-40°	728.3	47.4
0°-60°	1268.0	82.5
0°-90°	1537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	549	549	549	549	549	
5°	546	547	548	551	552	52
15°	526	530	540	549	553	149
25°	488	495	512	529	537	225
35°	431	440	460	481	491	269
45°	354	360	381	400	408	272
55°	258	261	277	290	296	230
65°	162	159	167	175	179	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°	549.0	549.0	549.0	549.0	549.0
2.5°	548.1	548.1	549.0	550.0	550.9
5°	546.2	547.1	548.1	550.9	551.8
7.5°	543.4	544.3	547.1	550.9	552.8
10°	538.7	540.6	545.3	550.9	553.7
12.5°	533.0	535.9	543.4	550.0	553.7
15°	526.5	530.2	539.6	549.0	552.8
17.5°	518.9	523.6	534.9	545.3	550.0
20°	510.5	516.1	528.3	541.5	547.1
22.5°	499.2	506.7	521.8	536.8	543.4
25°	487.9	495.4	512.4	529.3	536.8
27.5°	475.7	484.2	502.0	520.8	528.3
30°	462.5	470.1	489.8	509.5	518.0
32.5°	447.5	455.0	475.7	496.4	505.8
35°	430.6	440.0	459.7	481.3	490.7
37.5°	412.7	421.2	442.8	463.5	471.9
40°	393.9	402.4	423.0	444.7	453.1
42.5°	374.2	382.6	402.4	423.0	432.4
45°	353.5	360.1	380.7	400.5	408.0
47.5°	331.9	336.6	356.3	375.1	382.6
50°	308.4	313.1	331.9	348.8	356.3
52.5°	283.0	286.7	304.6	319.6	328.1
55°	257.6	261.3	277.3	290.5	296.1
57.5°	232.2	234.1	248.2	261.3	267.0
60°	208.7	208.7	220.0	230.3	237.8
62.5°	181.4	184.3	192.7	203.1	205.9
65°	161.7	158.9	167.3	174.9	178.6
67.5°	139.1	137.3	142.9	149.5	151.4
70°	118.5	115.6	120.3	124.1	126.0
72.5°	96.8	95.9	97.8	100.6	101.5
75°	79.0	76.1	77.1	78.0	79.9
77.5°	63.0	58.3	59.2	58.3	59.2
80°	46.1	42.3	42.3	41.4	40.4
82.5°	31.0	29.1	27.3	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)