

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: P296627

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296627
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-L93050-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: 1493.0 lumens
Efficiency: N/A
Efficacy: 94.4 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

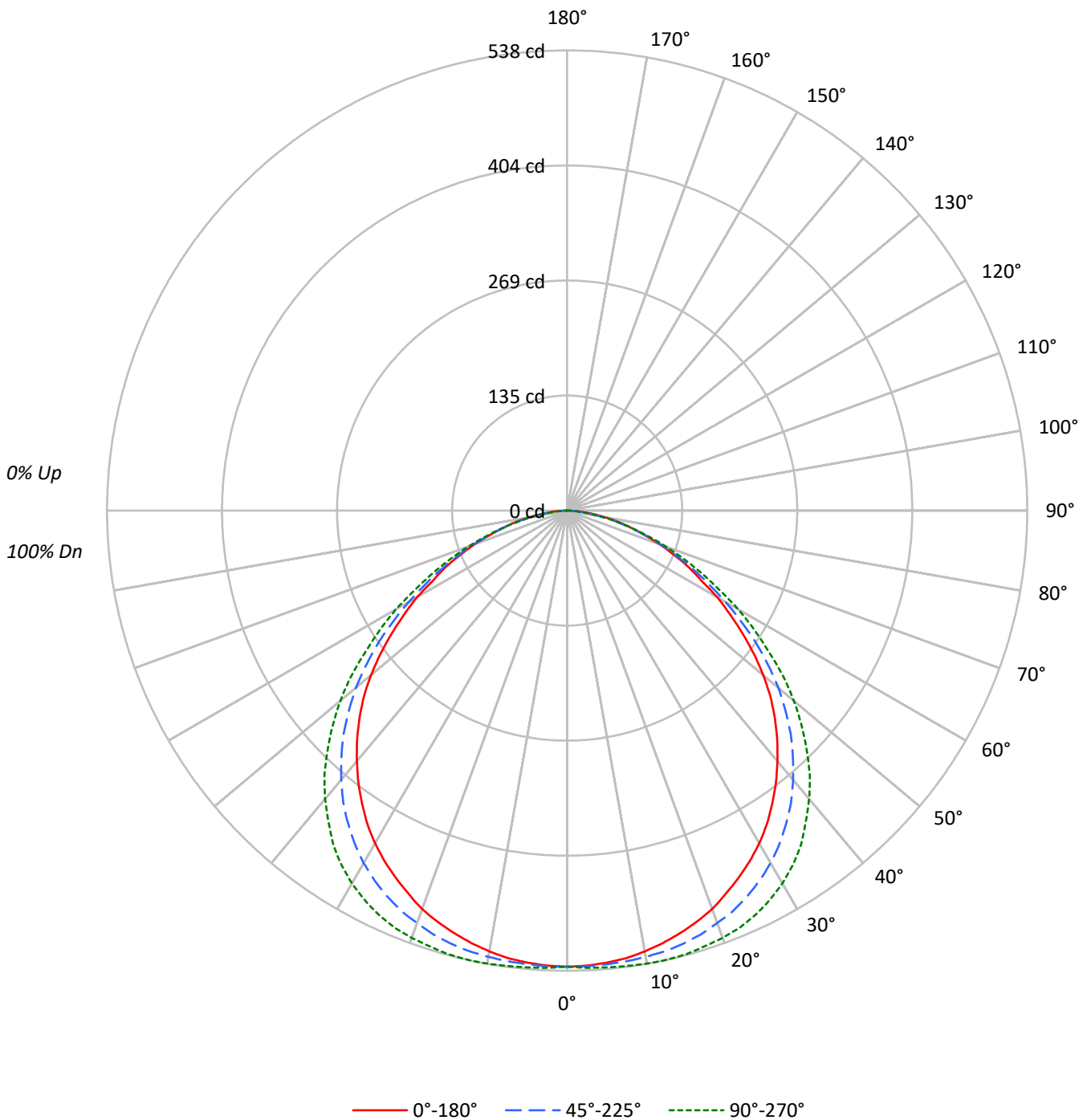
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					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°	1435	1435	1435
5°	1433	1438	1448
10°	1430	1447	1470
15°	1425	1460	1496
20°	1420	1470	1522
25°	1407	1478	1548
30°	1396	1478	1564
35°	1374	1467	1566
40°	1344	1443	1546
45°	1307	1407	1508
50°	1254	1350	1449
55°	1174	1264	1350
60°	1091	1150	1243
65°	1000	1035	1105
70°	906	920	963
75°	797	779	807
80°	693	637	609
85°	565	423	367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	3.4
10°-20°	148.1	9.9
20°-30°	229.4	15.4
30°-40°	279.2	18.7
40°-50°	284.4	19.0
50°-60°	239.8	16.1
60°-70°	162.2	10.9
70°-80°	81.1	5.4
80°-90°	18.0	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°	428.3	28.7
0°-40°	707.5	47.4
0°-60°	1231.7	82.5
0°-90°	1493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	533	533	533	533	533	
5°	531	532	532	535	536	50
15°	511	515	524	533	537	144
25°	474	481	498	514	521	218
35°	418	427	447	468	477	261
45°	343	350	370	389	396	264
55°	250	254	269	282	288	224
65°	157	154	162	170	174	155
75°	77	74	75	76	78	82
85°	18	16	14	12	12	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	533.3	533.3	533.3	533.3	533.3
2.5°	532.4	532.4	533.3	534.2	535.1
5°	530.6	531.5	532.4	535.1	536.0
7.5°	527.8	528.7	531.5	535.1	537.0
10°	523.3	525.1	529.7	535.1	537.9
12.5°	517.8	520.5	527.8	534.2	537.9
15°	511.4	515.0	524.2	533.3	537.0
17.5°	504.1	508.6	519.6	529.7	534.2
20°	495.9	501.3	513.2	526.0	531.5
22.5°	484.9	492.2	506.8	521.4	527.8
25°	473.9	481.3	497.7	514.1	521.4
27.5°	462.1	470.3	487.6	505.9	513.2
30°	449.3	456.6	475.8	495.0	503.2
32.5°	434.7	442.0	462.1	482.2	491.3
35°	418.2	427.4	446.6	467.6	476.7
37.5°	400.9	409.1	430.1	450.2	458.4
40°	382.6	390.8	410.9	431.9	440.2
42.5°	363.5	371.7	390.8	410.9	420.1
45°	343.4	349.8	369.8	389.0	396.3
47.5°	322.4	326.9	346.1	364.4	371.7
50°	299.5	304.1	322.4	338.8	346.1
52.5°	274.9	278.5	295.9	310.5	318.7
55°	250.2	253.9	269.4	282.2	287.7
57.5°	225.6	227.4	241.1	253.9	259.3
60°	202.7	202.7	213.7	223.7	231.0
62.5°	176.2	179.0	187.2	197.2	200.0
65°	157.1	154.3	162.5	169.9	173.5
67.5°	135.2	133.3	138.8	145.2	147.0
70°	115.1	112.3	116.9	120.5	122.4
72.5°	94.1	93.1	95.0	97.7	98.6
75°	76.7	74.0	74.9	75.8	77.6
77.5°	61.2	56.6	57.5	56.6	57.5
80°	44.7	41.1	41.1	40.2	39.3
82.5°	30.1	28.3	26.5	24.7	23.7
85°	18.3	15.5	13.7	11.9	11.9
87.5°	7.3	5.5	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)