

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: P296625

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296625
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-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1266.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

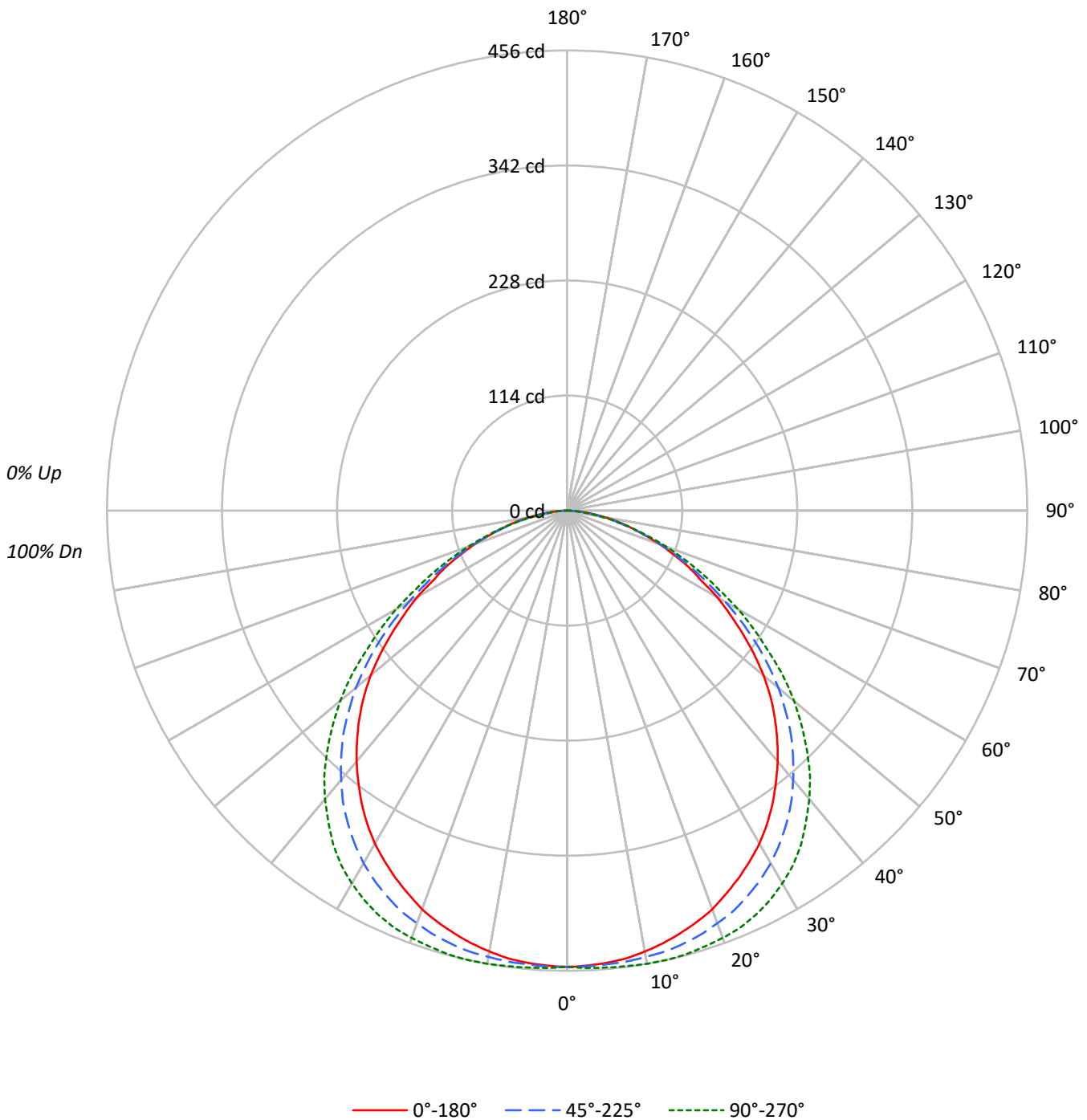
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1217	1217	1217
5°	1215	1219	1228
10°	1212	1227	1246
15°	1208	1238	1268
20°	1204	1246	1291
25°	1193	1253	1313
30°	1184	1253	1326
35°	1165	1244	1328
40°	1140	1224	1311
45°	1108	1193	1279
50°	1063	1144	1229
55°	996	1072	1144
60°	925	975	1054
65°	848	877	937
70°	768	780	817
75°	676	660	684
80°	587	539	516
85°	479	358	312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	3.4
10°-20°	125.6	9.9
20°-30°	194.5	15.4
30°-40°	236.8	18.7
40°-50°	241.1	19.0
50°-60°	203.4	16.1
60°-70°	137.6	10.9
70°-80°	68.7	5.4
80°-90°	15.3	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°	363.2	28.7
0°-40°	599.9	47.4
0°-60°	1044.4	82.5
0°-90°	1266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	452	452	452	452	452	
5°	450	451	451	454	454	43
15°	434	437	444	452	455	122
25°	402	408	422	436	442	185
35°	355	362	379	396	404	222
45°	291	297	314	330	336	224
55°	212	215	228	239	244	190
65°	133	131	138	144	147	132
75°	65	63	64	64	66	70
85°	16	13	12	10	10	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	452.2	452.2	452.2	452.2	452.2
2.5°	451.4	451.4	452.2	453.0	453.8
5°	449.9	450.7	451.4	453.8	454.5
7.5°	447.6	448.3	450.7	453.8	455.3
10°	443.7	445.3	449.1	453.8	456.1
12.5°	439.1	441.4	447.6	453.0	456.1
15°	433.6	436.7	444.5	452.2	455.3
17.5°	427.4	431.3	440.6	449.1	453.0
20°	420.5	425.1	435.2	446.0	450.7
22.5°	411.2	417.4	429.8	442.2	447.6
25°	401.9	408.1	422.0	436.0	442.2
27.5°	391.8	398.8	413.5	429.0	435.2
30°	381.0	387.2	403.4	419.7	426.7
32.5°	368.6	374.8	391.8	408.9	416.6
35°	354.7	362.4	378.7	396.5	404.2
37.5°	339.9	346.9	364.7	381.8	388.7
40°	324.5	331.4	348.5	366.3	373.2
42.5°	308.2	315.2	331.4	348.5	356.2
45°	291.2	296.6	313.6	329.9	336.1
47.5°	273.3	277.2	293.5	309.0	315.2
50°	254.0	257.9	273.3	287.3	293.5
52.5°	233.1	236.2	250.9	263.3	270.2
55°	212.2	215.3	228.4	239.3	243.9
57.5°	191.3	192.8	204.4	215.3	219.9
60°	171.9	171.9	181.2	189.7	195.9
62.5°	149.4	151.8	158.7	167.3	169.6
65°	133.2	130.9	137.8	144.0	147.1
67.5°	114.6	113.1	117.7	123.1	124.7
70°	97.6	95.2	99.1	102.2	103.8
72.5°	79.8	79.0	80.5	82.9	83.6
75°	65.0	62.7	63.5	64.3	65.8
77.5°	51.9	48.0	48.8	48.0	48.8
80°	37.9	34.8	34.8	34.1	33.3
82.5°	25.6	24.0	22.5	20.9	20.1
85°	15.5	13.2	11.6	10.1	10.1
87.5°	6.2	4.6	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)