

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: P296636

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296636
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-L93050-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2168.0 lumens
Efficiency: N/A
Efficacy: 87.0 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

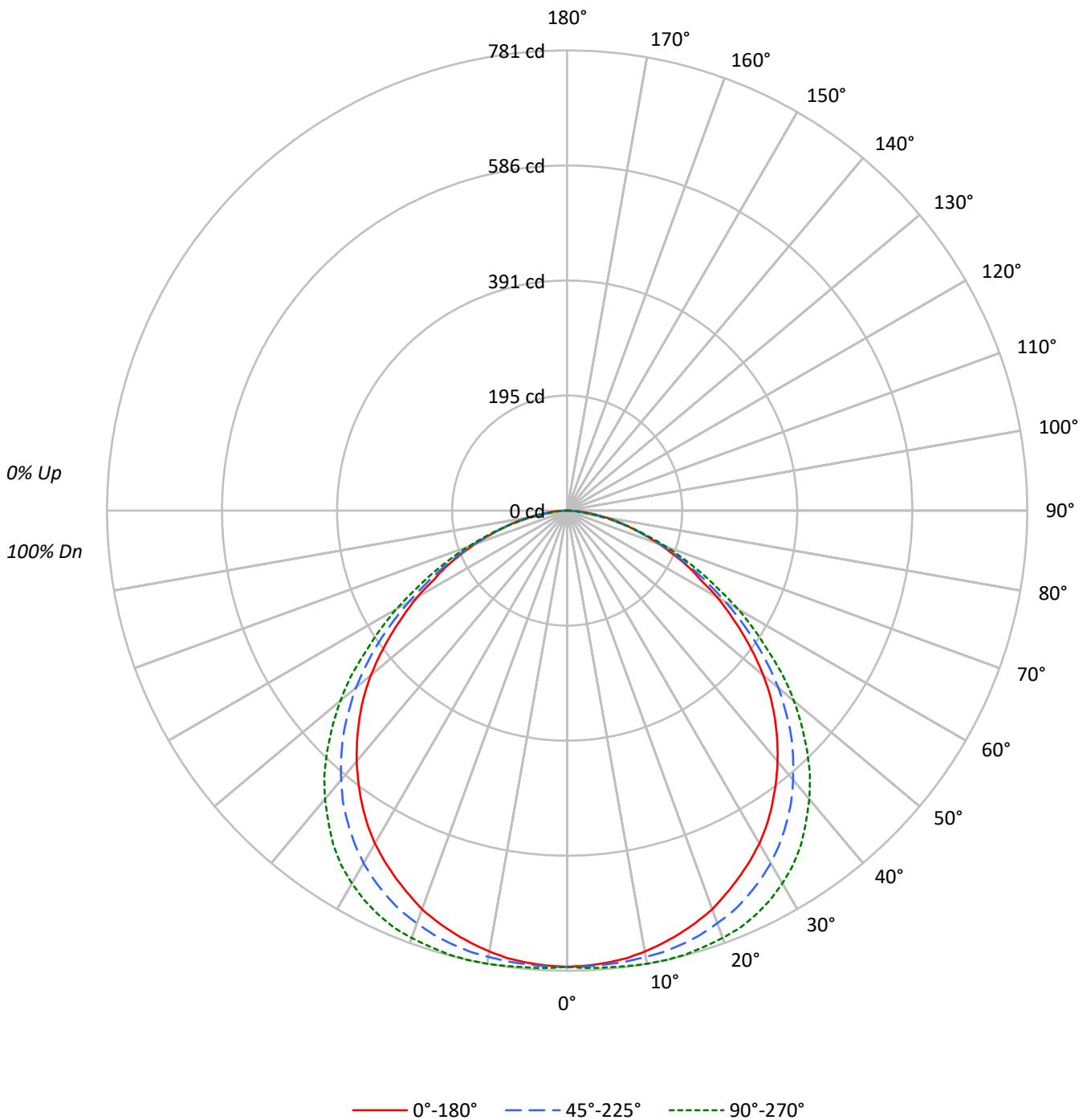
Input Watts (W): 24.924
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2084	2084	2084
5°	2081	2088	2103
10°	2076	2102	2134
15°	2069	2121	2172
20°	2062	2134	2210
25°	2043	2146	2248
30°	2027	2147	2270
35°	1995	2130	2274
40°	1952	2096	2245
45°	1897	2044	2190
50°	1821	1960	2104
55°	1704	1835	1960
60°	1584	1670	1806
65°	1452	1503	1605
70°	1315	1335	1398
75°	1158	1130	1172
80°	1007	925	883
85°	818	614	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.4
10°-20°	215.0	9.9
20°-30°	333.1	15.4
30°-40°	405.4	18.7
40°-50°	412.9	19.0
50°-60°	348.2	16.1
60°-70°	235.6	10.9
70°-80°	117.7	5.4
80°-90°	26.2	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°	621.9	28.7
0°-40°	1027.3	47.4
0°-60°	1788.5	82.5
0°-90°	2168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	770	772	773	777	778	73
15°	743	748	761	774	780	210
25°	688	699	723	747	757	317
35°	607	621	648	679	692	380
45°	499	508	537	565	576	384
55°	363	369	391	410	418	325
65°	228	224	236	247	252	225
75°	111	107	109	110	113	119
85°	26	22	20	17	17	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.4	774.4	774.4	774.4	774.4
2.5°	773.1	773.1	774.4	775.7	777.1
5°	770.4	771.8	773.1	777.1	778.4
7.5°	766.5	767.8	771.8	777.1	779.7
10°	759.8	762.5	769.1	777.1	781.0
12.5°	751.9	755.9	766.5	775.7	781.0
15°	742.6	747.9	761.2	774.4	779.7
17.5°	732.0	738.6	754.5	769.1	775.7
20°	720.0	728.0	745.2	763.8	771.8
22.5°	704.1	714.7	736.0	757.2	766.5
25°	688.2	698.8	722.7	746.6	757.2
27.5°	671.0	682.9	708.1	734.6	745.2
30°	652.4	663.0	690.9	718.7	730.7
32.5°	631.2	641.8	671.0	700.2	713.4
35°	607.3	620.6	648.4	678.9	692.2
37.5°	582.1	594.1	624.6	653.7	665.7
40°	555.6	567.6	596.7	627.2	639.2
42.5°	527.8	539.7	567.6	596.7	610.0
45°	498.6	507.9	537.1	564.9	575.5
47.5°	468.1	474.7	502.6	529.1	539.7
50°	434.9	441.6	468.1	492.0	502.6
52.5°	399.1	404.4	429.6	450.9	462.8
55°	363.3	368.6	391.2	409.8	417.7
57.5°	327.5	330.2	350.1	368.6	376.6
60°	294.4	294.4	310.3	324.9	335.5
62.5°	255.9	259.9	271.8	286.4	290.4
65°	228.1	224.1	236.0	246.6	252.0
67.5°	196.3	193.6	201.6	210.8	213.5
70°	167.1	163.1	169.7	175.0	177.7
72.5°	136.6	135.3	137.9	141.9	143.2
75°	111.4	107.4	108.7	110.1	112.7
77.5°	88.8	82.2	83.5	82.2	83.5
80°	65.0	59.7	59.7	58.3	57.0
82.5°	43.8	41.1	38.5	35.8	34.5
85°	26.5	22.5	19.9	17.2	17.2
87.5°	10.6	8.0	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)