

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: P296285

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-31-RDP-UNV-L92765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2199.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

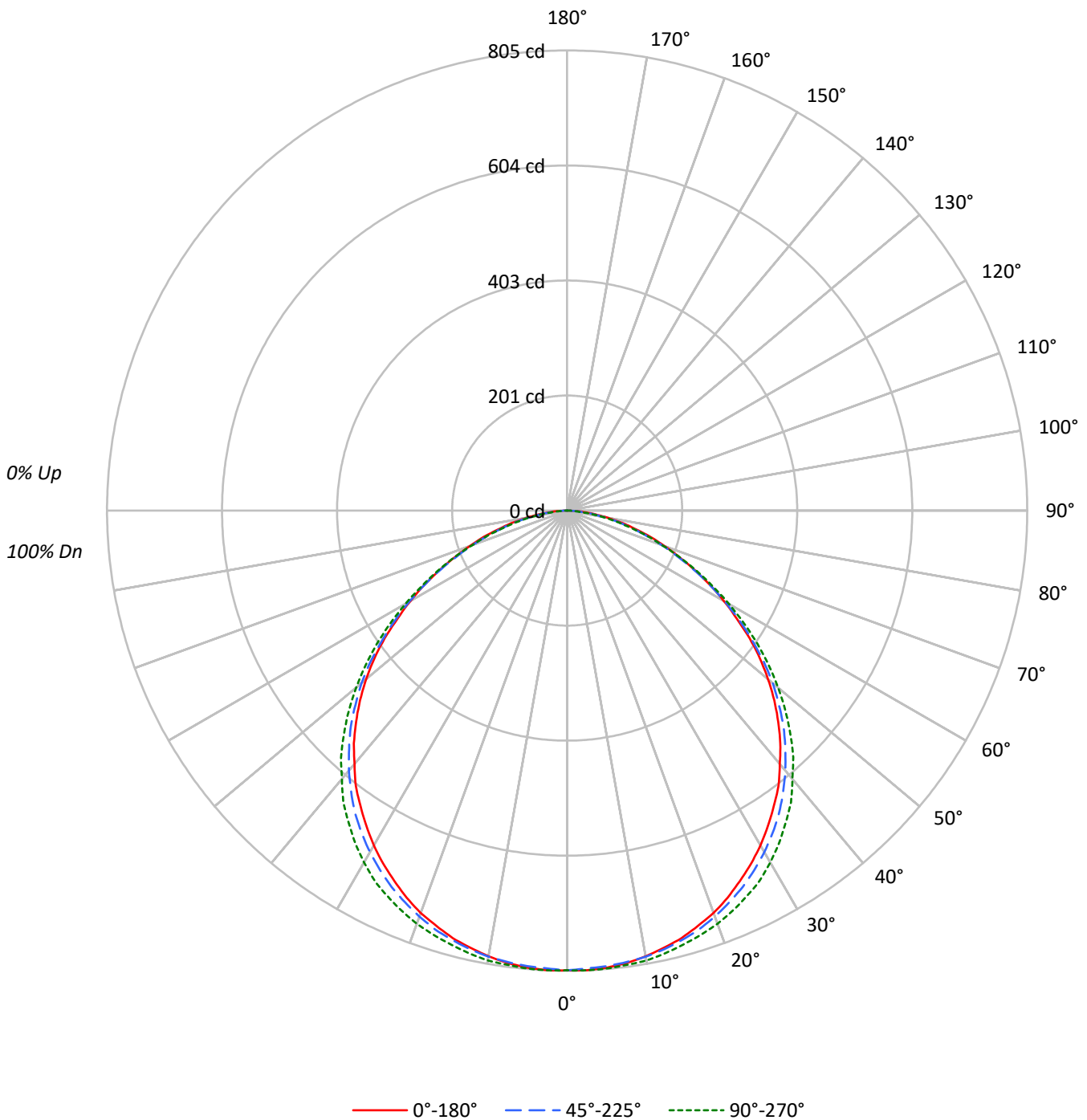
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1082	1082	1082
5°	1084	1081	1086
10°	1082	1083	1092
15°	1078	1083	1095
20°	1073	1082	1101
25°	1061	1079	1105
30°	1051	1072	1104
35°	1036	1062	1095
40°	1017	1043	1077
45°	994	1019	1051
50°	960	983	1009
55°	914	926	953
60°	853	858	880
65°	784	778	797
70°	712	692	696
75°	633	598	594
80°	549	491	478
85°	451	347	270



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.5
10°-20°	219.9	10.0
20°-30°	335.6	15.3
30°-40°	404.6	18.4
40°-50°	412.6	18.8
50°-60°	353.1	16.1
60°-70°	243.2	11.1
70°-80°	124.7	5.7
80°-90°	29.0	1.3
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°	631.7	28.7
0°-40°	1036.3	47.1
0°-60°	1802.1	81.9
0°-90°	2199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	802	801	800	802	804	76
15°	774	773	778	783	786	218
25°	715	717	727	739	744	330
35°	631	633	646	661	666	395
45°	522	523	536	549	552	402
55°	390	387	395	403	406	348
65°	246	240	244	246	250	245
75°	122	117	115	115	114	131
85°	29	26	22	20	18	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.2	804.2	804.2	804.2	804.2
2.5°	805.0	803.3	801.7	803.3	805.0
5°	802.5	800.8	800.0	802.5	804.2
7.5°	798.3	796.7	796.7	800.0	801.7
10°	791.7	790.8	792.5	795.8	799.2
12.5°	783.3	783.3	785.8	790.0	793.3
15°	774.2	773.3	777.5	783.3	785.8
17.5°	761.6	762.5	768.3	775.0	778.3
20°	749.1	750.0	755.8	765.0	769.1
22.5°	733.3	734.9	741.6	753.3	757.5
25°	714.9	717.4	726.6	739.1	744.1
27.5°	696.6	699.1	709.1	723.3	729.9
30°	676.5	679.9	689.9	704.9	710.8
32.5°	654.0	656.5	669.0	684.1	689.9
35°	630.7	633.2	646.5	660.7	666.5
37.5°	607.3	607.3	620.7	637.3	643.2
40°	578.9	579.8	594.0	609.8	613.1
42.5°	552.2	552.2	564.8	579.8	585.6
45°	522.2	523.1	535.6	548.9	552.2
47.5°	491.4	491.4	502.2	514.7	518.0
50°	458.8	457.1	469.7	479.7	482.2
52.5°	425.4	422.9	433.0	441.3	444.6
55°	389.6	387.1	394.6	402.9	406.3
57.5°	352.0	348.7	357.0	364.6	366.2
60°	317.0	312.0	318.7	322.8	327.0
62.5°	282.0	276.1	281.1	283.6	287.0
65°	246.1	240.3	244.4	246.1	250.3
67.5°	211.9	207.7	208.6	211.1	212.7
70°	181.0	176.0	176.0	176.0	176.9
72.5°	152.7	145.2	144.3	145.2	145.2
75°	121.8	116.8	115.1	115.1	114.3
77.5°	97.6	90.9	90.1	88.4	86.8
80°	70.9	65.1	63.4	62.6	61.7
82.5°	49.2	44.2	42.5	40.9	38.4
85°	29.2	25.9	22.5	20.0	17.5
87.5°	10.8	10.0	8.3	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)