

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: P296234

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296234
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-L93050-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: 2185.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

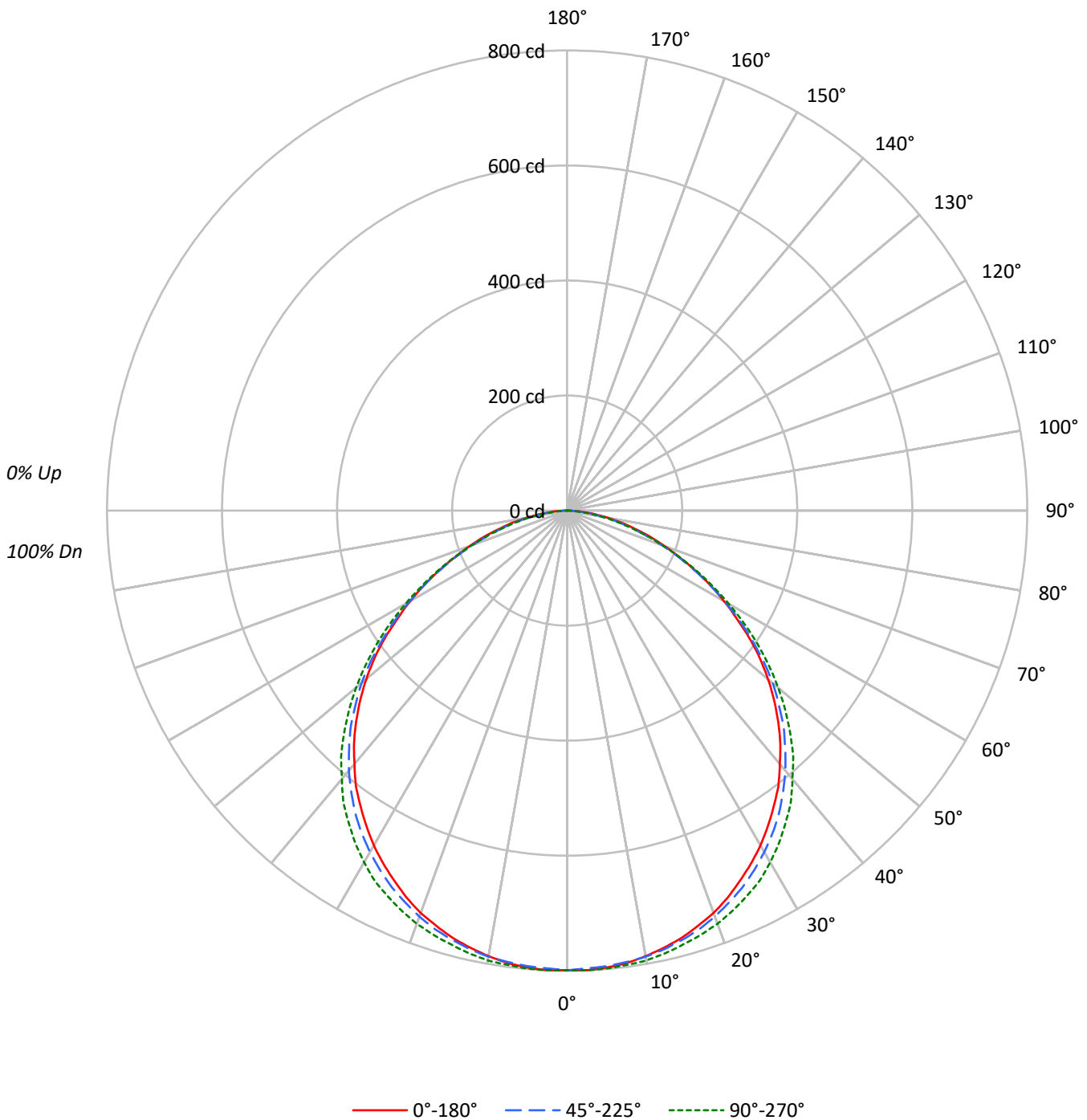
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1075	1075	1075
5°	1077	1074	1079
10°	1075	1076	1085
15°	1071	1076	1088
20°	1066	1075	1094
25°	1055	1072	1098
30°	1044	1065	1097
35°	1029	1055	1088
40°	1010	1037	1070
45°	987	1013	1044
50°	954	977	1003
55°	908	920	947
60°	848	852	874
65°	778	773	792
70°	708	688	691
75°	629	595	591
80°	546	488	475
85°	448	346	269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.5
10°-20°	218.5	10.0
20°-30°	333.5	15.3
30°-40°	402.0	18.4
40°-50°	410.0	18.8
50°-60°	350.9	16.1
60°-70°	241.7	11.1
70°-80°	123.9	5.7
80°-90°	28.8	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°	627.7	28.7
0°-40°	1029.7	47.1
0°-60°	1790.6	81.9
0°-90°	2185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	797	796	795	797	799	76
15°	769	768	772	778	781	217
25°	710	713	722	734	739	328
35°	627	629	642	656	662	392
45°	519	520	532	545	549	400
55°	387	385	392	400	404	345
65°	244	239	243	244	249	243
75°	121	116	114	114	114	130
85°	29	26	22	20	17	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	799.1	799.1	799.1	799.1	799.1
2.5°	799.9	798.2	796.6	798.2	799.9
5°	797.4	795.7	794.9	797.4	799.1
7.5°	793.3	791.6	791.6	794.9	796.6
10°	786.6	785.8	787.5	790.8	794.1
12.5°	778.3	778.3	780.8	785.0	788.3
15°	769.2	768.4	772.5	778.3	780.8
17.5°	756.8	757.6	763.4	770.1	773.4
20°	744.4	745.2	751.0	760.1	764.2
22.5°	728.6	730.3	736.9	748.5	752.6
25°	710.4	712.9	722.0	734.4	739.4
27.5°	692.1	694.6	704.6	718.7	725.3
30°	672.2	675.6	685.5	700.4	706.2
32.5°	649.9	652.3	664.8	679.7	685.5
35°	626.7	629.1	642.4	656.5	662.3
37.5°	603.4	603.4	616.7	633.3	639.1
40°	575.3	576.1	590.2	605.9	609.2
42.5°	548.7	548.7	561.2	576.1	581.9
45°	518.9	519.7	532.2	545.4	548.7
47.5°	488.2	488.2	499.0	511.4	514.7
50°	455.9	454.2	466.7	476.6	479.1
52.5°	422.7	420.3	430.2	438.5	441.8
55°	387.1	384.6	392.1	400.4	403.7
57.5°	349.8	346.5	354.8	362.2	363.9
60°	315.0	310.0	316.6	320.8	324.9
62.5°	280.2	274.4	279.3	281.8	285.1
65°	244.5	238.7	242.9	244.5	248.7
67.5°	210.5	206.4	207.2	209.7	211.4
70°	179.9	174.9	174.9	174.9	175.7
72.5°	151.7	144.2	143.4	144.2	144.2
75°	121.0	116.0	114.4	114.4	113.6
77.5°	97.0	90.4	89.5	87.9	86.2
80°	70.5	64.7	63.0	62.2	61.3
82.5°	48.9	43.9	42.3	40.6	38.1
85°	29.0	25.7	22.4	19.9	17.4
87.5°	10.8	9.9	8.3	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)