

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: P296295

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296295
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-LD5-36-RDP-UNV-L92765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2690.0 lumens
Efficiency: N/A
Efficacy: 105.6 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

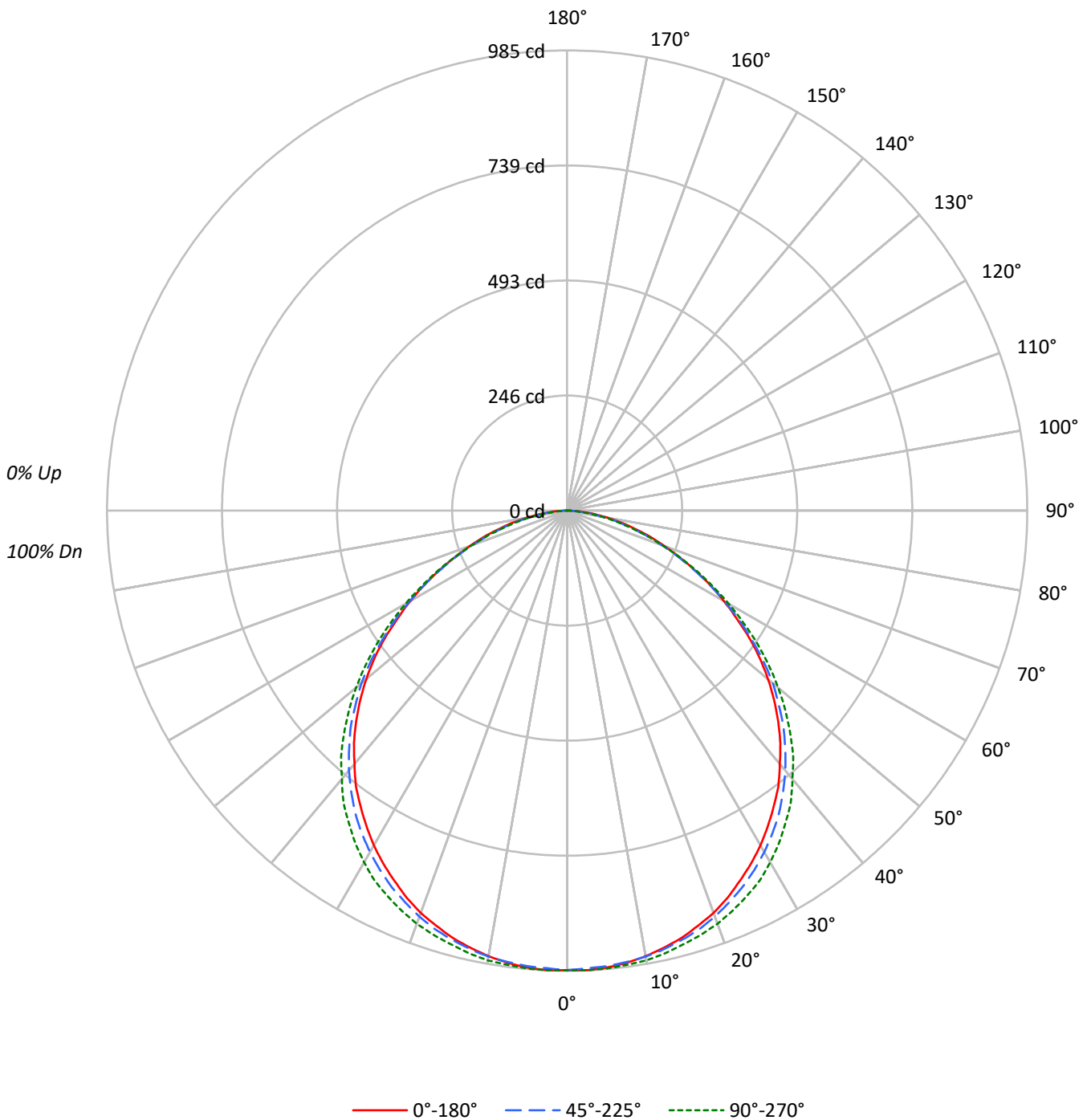
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1324	1324	1324
5°	1326	1322	1329
10°	1323	1325	1336
15°	1319	1325	1339
20°	1312	1324	1347
25°	1298	1319	1351
30°	1286	1311	1351
35°	1267	1299	1339
40°	1244	1276	1317
45°	1216	1247	1286
50°	1175	1203	1235
55°	1118	1132	1166
60°	1044	1049	1076
65°	958	952	975
70°	871	847	851
75°	775	732	727
80°	672	601	585
85°	551	426	330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	3.5
10°-20°	269.0	10.0
20°-30°	410.5	15.3
30°-40°	494.9	18.4
40°-50°	504.7	18.8
50°-60°	432.0	16.1
60°-70°	297.5	11.1
70°-80°	152.5	5.7
80°-90°	35.5	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°	772.8	28.7
0°-40°	1267.7	47.1
0°-60°	2204.4	81.9
0°-90°	2690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	982	980	979	982	984	93
15°	947	946	951	958	961	267
25°	875	878	889	904	910	403
35°	772	774	791	808	815	483
45°	639	640	655	672	676	492
55°	477	474	483	493	497	425
65°	301	294	299	301	306	299
75°	149	143	141	141	140	161
85°	36	32	28	24	21	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.7	983.7	983.7	983.7	983.7
2.5°	984.8	982.7	980.7	982.7	984.8
5°	981.7	979.7	978.6	981.7	983.7
7.5°	976.6	974.6	974.6	978.6	980.7
10°	968.4	967.4	969.5	973.5	977.6
12.5°	958.2	958.2	961.3	966.4	970.5
15°	947.0	946.0	951.1	958.2	961.3
17.5°	931.7	932.7	939.9	948.0	952.1
20°	916.4	917.4	924.6	935.8	940.9
22.5°	897.0	899.0	907.2	921.5	926.6
25°	874.6	877.6	888.8	904.1	910.3
27.5°	852.1	855.2	867.4	884.8	892.9
30°	827.6	831.7	843.9	862.3	869.4
32.5°	800.1	803.1	818.4	836.8	843.9
35°	771.5	774.5	790.9	808.2	815.4
37.5°	742.9	742.9	759.2	779.6	786.8
40°	708.2	709.2	726.6	746.0	750.1
42.5°	675.6	675.6	690.9	709.2	716.4
45°	638.8	639.8	655.1	671.5	675.6
47.5°	601.1	601.1	614.3	629.6	633.7
50°	561.3	559.2	574.5	586.8	589.8
52.5°	520.4	517.4	529.6	539.8	543.9
55°	476.6	473.5	482.7	492.9	497.0
57.5°	430.6	426.6	436.8	445.9	448.0
60°	387.8	381.7	389.8	394.9	400.0
62.5°	344.9	337.8	343.9	347.0	351.0
65°	301.0	293.9	299.0	301.0	306.1
67.5°	259.2	254.1	255.1	258.2	260.2
70°	221.4	215.3	215.3	215.3	216.3
72.5°	186.7	177.6	176.5	177.6	177.6
75°	149.0	142.9	140.8	140.8	139.8
77.5°	119.4	111.2	110.2	108.2	106.1
80°	86.7	79.6	77.6	76.5	75.5
82.5°	60.2	54.1	52.0	50.0	46.9
85°	35.7	31.6	27.6	24.5	21.4
87.5°	13.3	12.2	10.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)