

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: P295776

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-23-RDP-UNV-L92765-W2A1-U-6500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1906.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

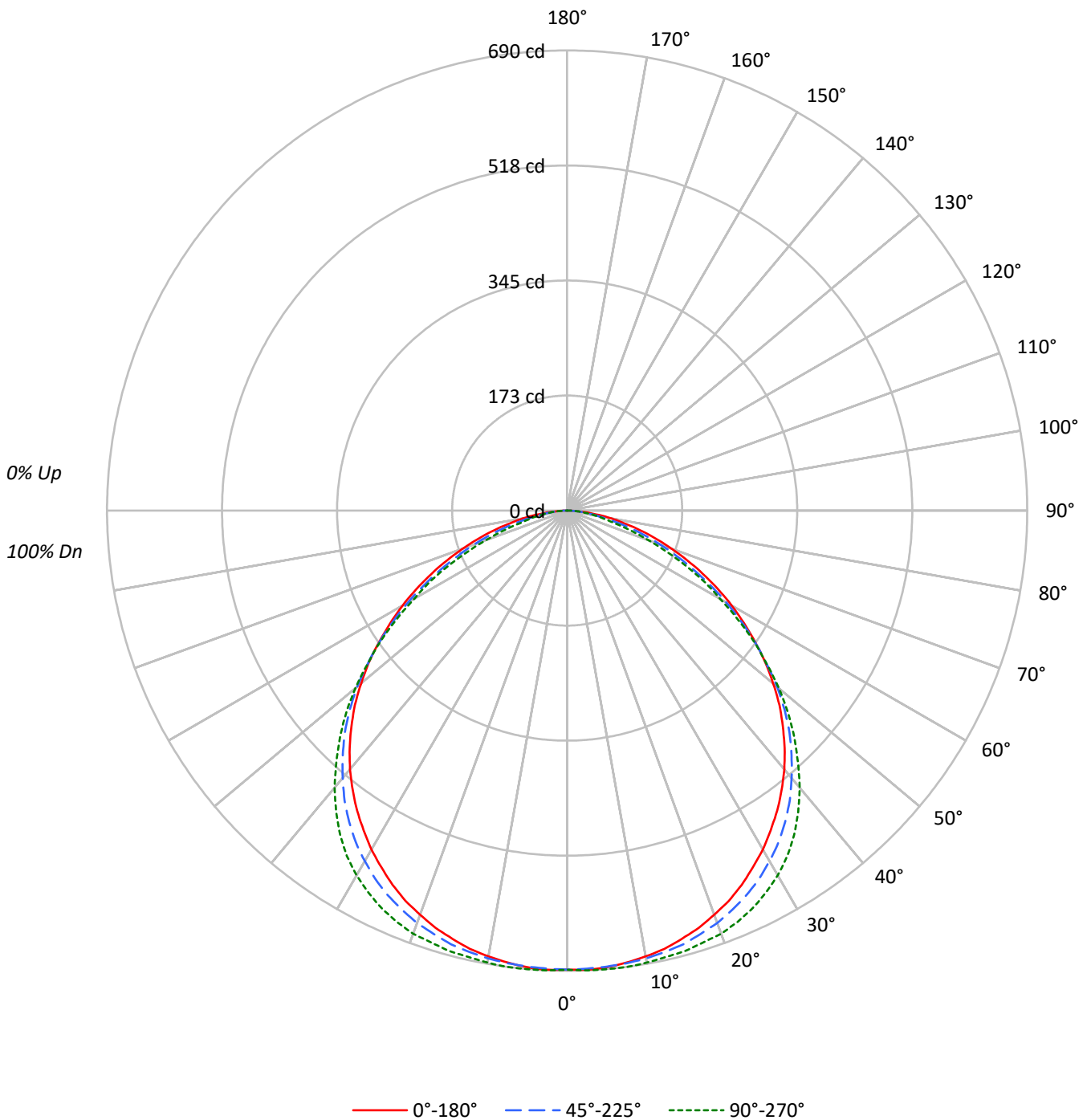
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1852	1852	1852
5°	1857	1854	1864
10°	1855	1863	1881
15°	1852	1875	1904
20°	1847	1884	1933
25°	1839	1889	1954
30°	1824	1886	1962
35°	1804	1872	1950
40°	1779	1839	1906
45°	1740	1794	1834
50°	1688	1720	1736
55°	1617	1612	1604
60°	1534	1483	1427
65°	1429	1326	1254
70°	1304	1162	1013
75°	1172	965	758
80°	1041	704	660
85°	818	584	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	3.4
10°-20°	190.4	10.0
20°-30°	293.9	15.4
30°-40°	356.4	18.7
40°-50°	361.9	19.0
50°-60°	306.1	16.1
60°-70°	207.1	10.9
70°-80°	100.1	5.3
80°-90°	24.4	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°	549.8	28.8
0°-40°	906.3	47.5
0°-60°	1574.3	82.6
0°-90°	1906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	687	687	686	689	690	65
15°	665	668	673	681	684	188
25°	619	624	636	652	658	285
35°	549	555	570	588	594	343
45°	457	458	472	481	482	353
55°	345	342	344	344	342	308
65°	224	215	208	200	197	222
75°	113	104	93	80	73	120
85°	26	21	19	19	19	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	688.3	688.3	688.3	688.3	688.3
2.5°	689.3	689.3	687.4	689.3	690.2
5°	687.4	687.4	686.4	689.3	690.2
7.5°	683.6	684.5	684.5	688.3	690.2
10°	678.9	680.8	681.7	687.4	688.3
12.5°	673.2	675.1	677.9	684.5	685.5
15°	664.7	668.4	673.2	680.8	683.6
17.5°	656.1	659.9	665.6	676.0	678.9
20°	644.8	649.5	658.0	670.3	675.1
22.5°	633.4	637.2	647.6	662.8	667.5
25°	619.2	623.9	636.3	652.3	658.0
27.5°	603.1	609.7	623.0	640.0	645.7
30°	587.0	592.7	606.9	625.8	631.5
32.5°	568.1	573.8	589.9	607.8	614.5
35°	549.1	554.8	570.0	588.0	593.6
37.5°	528.3	532.1	548.2	563.3	569.0
40°	506.5	509.4	523.6	538.7	542.5
42.5°	482.9	484.8	498.0	511.3	512.2
45°	457.3	458.3	471.5	481.0	481.9
47.5°	431.7	430.8	442.2	448.8	449.7
50°	403.3	403.3	410.9	414.7	414.7
52.5°	374.9	373.0	376.8	379.7	376.8
55°	344.6	341.8	343.7	343.7	341.8
57.5°	314.3	308.7	309.6	307.7	303.0
60°	285.0	278.4	275.5	268.9	265.1
62.5°	254.7	247.1	241.4	233.9	232.9
65°	224.4	214.9	208.3	199.8	196.9
67.5°	195.0	186.5	177.1	167.6	161.9
70°	165.7	156.2	147.7	135.4	128.8
72.5°	139.2	130.7	120.2	106.0	101.3
75°	112.7	104.1	92.8	80.5	72.9
77.5°	87.1	80.5	68.2	57.8	56.8
80°	67.2	59.6	45.4	42.6	42.6
82.5°	43.6	38.8	32.2	30.3	30.3
85°	26.5	20.8	18.9	18.9	18.9
87.5°	10.4	9.5	9.5	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)