

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: P295560

Luminaire Tested: **14RLN-LD5-23-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-23-UNV-L82765-W2A1-U-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2312.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

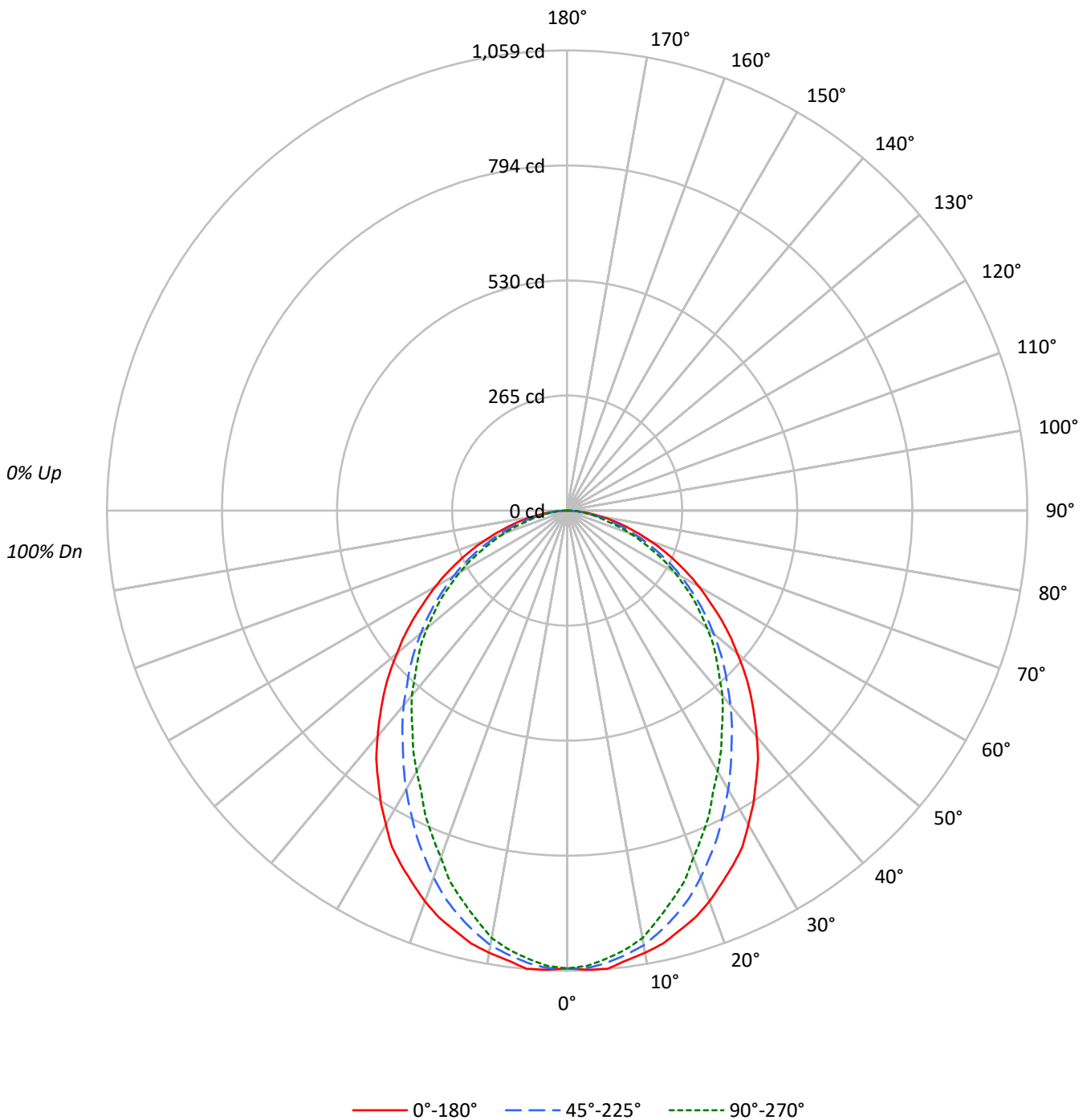
Input Watts (W): 20.739
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																												
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72																												
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62																												
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54																												
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47																												
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41																												
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37																												
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33																												
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30																												
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2835	2835	2835
5°	2860	2823	2796
10°	2823	2775	2730
15°	2786	2688	2590
20°	2741	2573	2433
25°	2676	2442	2294
30°	2591	2303	2151
35°	2489	2166	2037
40°	2384	2055	1952
45°	2271	1947	1851
50°	2138	1840	1758
55°	2016	1736	1663
60°	1887	1629	1540
65°	1747	1505	1380
70°	1590	1352	1222
75°	1432	1208	995
80°	1226	984	938
85°	994	936	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	4.3
10°-20°	270.8	11.7
20°-30°	380.0	16.4
30°-40°	421.5	18.2
40°-50°	404.7	17.5
50°-60°	339.1	14.7
60°-70°	238.1	10.3
70°-80°	124.3	5.4
80°-90°	34.8	1.5
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°	749.5	32.4
0°-40°	1171.0	50.7
0°-60°	1914.8	82.8
0°-90°	2312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1059	1045	1045	1038	1035	100
15°	1000	982	965	940	930	282
25°	901	869	822	782	772	415
35°	758	716	659	627	620	475
45°	597	551	512	492	486	460
55°	430	398	370	358	354	384
65°	274	256	236	222	217	273
75°	138	127	116	102	96	146
85°	32	30	30	30	30	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.7	1053.7	1053.7	1053.7	1053.7
2.5°	1057.6	1051.8	1053.7	1053.7	1048.8
5°	1058.6	1044.9	1044.9	1038.1	1035.2
7.5°	1044.0	1033.2	1031.3	1022.5	1019.5
10°	1033.2	1022.5	1015.6	1003.9	999.0
12.5°	1020.5	1003.9	991.2	971.7	963.9
15°	1000.0	982.4	964.8	939.5	929.7
17.5°	981.5	960.9	934.6	906.3	895.5
20°	957.0	932.6	898.4	859.4	849.6
22.5°	928.7	900.4	860.4	818.4	810.6
25°	901.4	869.1	822.3	782.2	772.5
27.5°	873.1	834.0	780.3	737.3	727.5
30°	834.0	793.9	741.2	699.2	692.4
32.5°	797.9	757.8	700.2	666.0	658.2
35°	757.8	715.8	659.2	627.0	620.1
37.5°	721.7	672.9	623.1	591.8	587.9
40°	678.7	634.8	585.0	561.5	555.7
42.5°	636.7	592.8	545.9	525.4	518.6
45°	596.7	550.8	511.7	492.2	486.3
47.5°	554.7	512.7	475.6	460.0	456.1
50°	510.7	473.6	439.5	424.8	419.9
52.5°	471.7	433.6	405.3	391.6	385.7
55°	429.7	397.5	370.1	358.4	354.5
57.5°	387.7	361.3	335.0	324.2	318.4
60°	350.6	324.2	302.7	290.0	286.1
62.5°	312.5	290.0	269.5	257.8	252.9
65°	274.4	255.9	236.3	221.7	216.8
67.5°	239.3	218.8	203.1	190.4	185.5
70°	202.1	187.5	171.9	160.2	155.3
72.5°	168.0	157.2	143.6	130.9	126.0
75°	137.7	127.0	116.2	102.5	95.7
77.5°	107.4	100.6	89.8	78.1	78.1
80°	79.1	75.2	63.5	61.5	60.5
82.5°	54.7	52.7	45.9	44.9	44.9
85°	32.2	30.3	30.3	30.3	30.3
87.5°	13.7	14.6	15.6	15.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)