

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: P295808

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295808
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-LD5-40-RDP-UNV-L92765-W2A1-U-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3118.0 lumens
Efficiency: N/A
Efficacy: 77.6 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

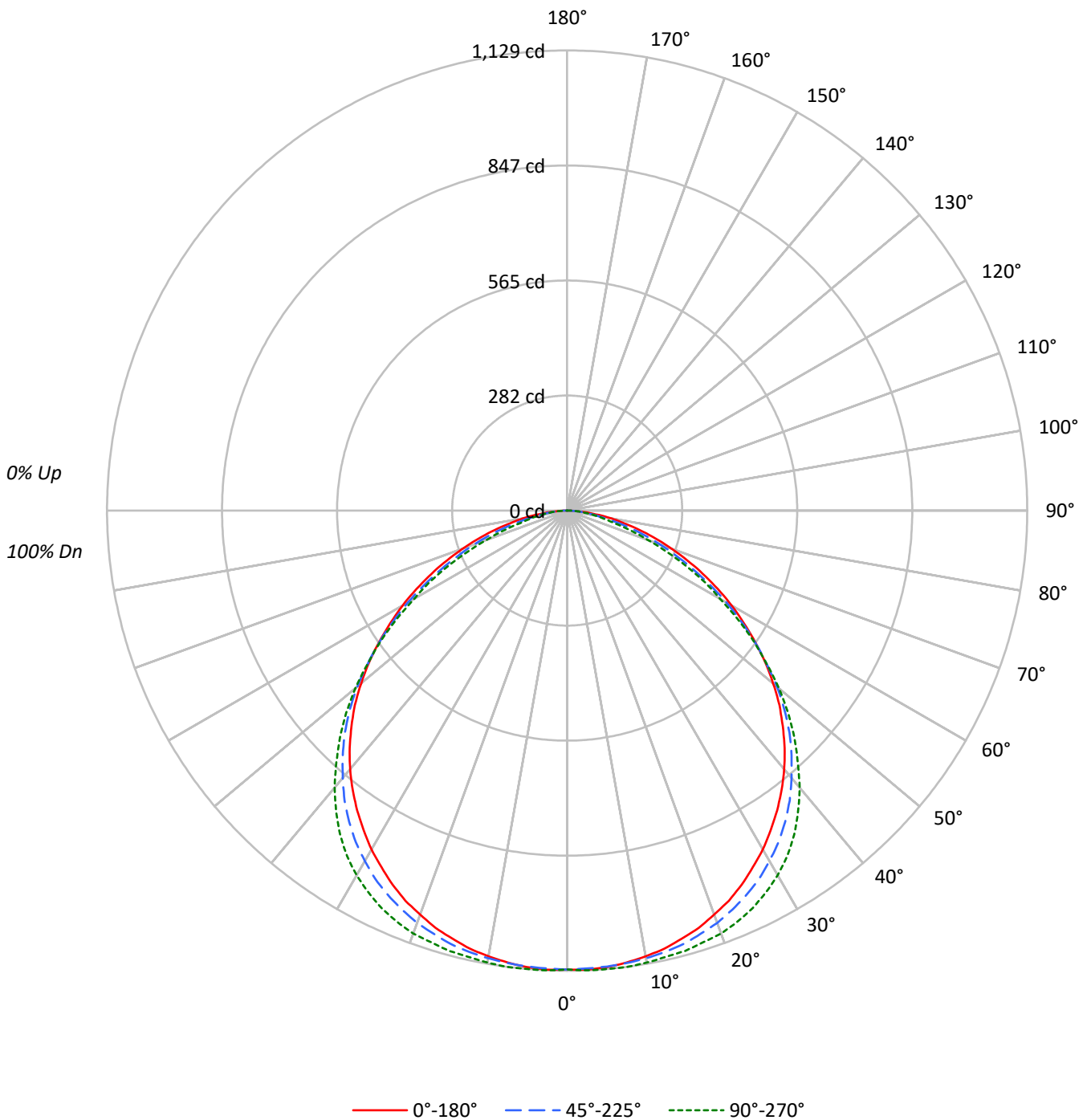
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3030	3030	3030
5°	3038	3033	3050
10°	3034	3047	3077
15°	3029	3068	3115
20°	3021	3083	3162
25°	3008	3090	3196
30°	2984	3085	3210
35°	2951	3063	3190
40°	2911	3009	3118
45°	2847	2935	3000
50°	2762	2814	2840
55°	2645	2638	2623
60°	2509	2426	2334
65°	2337	2169	2052
70°	2133	1901	1657
75°	1916	1578	1240
80°	1705	1151	1080
85°	1340	957	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.4
10°-20°	311.5	10.0
20°-30°	480.8	15.4
30°-40°	583.1	18.7
40°-50°	592.0	19.0
50°-60°	500.8	16.1
60°-70°	338.8	10.9
70°-80°	163.8	5.3
80°-90°	40.0	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°	899.5	28.8
0°-40°	1482.6	47.5
0°-60°	2575.3	82.6
0°-90°	3118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1124	1124	1123	1128	1129	107
15°	1087	1094	1101	1114	1118	307
25°	1013	1021	1041	1067	1076	467
35°	898	908	932	962	971	562
45°	748	750	771	787	788	577
55°	564	559	562	562	559	504
65°	367	352	341	327	322	364
75°	184	170	152	132	119	196
85°	43	34	31	31	31	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1126.0	1126.0	1126.0	1126.0	1126.0
2.5°	1127.6	1127.6	1124.5	1127.6	1129.1
5°	1124.5	1124.5	1122.9	1127.6	1129.1
7.5°	1118.3	1119.8	1119.8	1126.0	1129.1
10°	1110.5	1113.6	1115.2	1124.5	1126.0
12.5°	1101.2	1104.3	1109.0	1119.8	1121.4
15°	1087.3	1093.5	1101.2	1113.6	1118.3
17.5°	1073.4	1079.6	1088.9	1105.9	1110.5
20°	1054.8	1062.5	1076.5	1096.6	1104.3
22.5°	1036.2	1042.4	1059.4	1084.2	1091.9
25°	1013.0	1020.7	1040.8	1067.2	1076.5
27.5°	986.6	997.5	1019.2	1047.0	1056.3
30°	960.3	969.6	992.8	1023.8	1033.1
32.5°	929.3	938.6	964.9	994.4	1005.2
35°	898.3	907.6	932.4	961.8	971.1
37.5°	864.3	870.5	896.8	921.6	930.9
40°	828.6	833.3	856.5	881.3	887.5
42.5°	789.9	793.0	814.7	836.4	837.9
45°	748.1	749.6	771.3	786.8	788.4
47.5°	706.3	704.7	723.3	734.2	735.7
50°	659.8	659.8	672.2	678.4	678.4
52.5°	613.3	610.3	616.4	621.1	616.4
55°	563.8	559.1	562.2	562.2	559.1
57.5°	514.2	504.9	506.5	503.4	495.6
60°	466.2	455.4	450.7	439.9	433.7
62.5°	416.6	404.3	395.0	382.6	381.0
65°	367.1	351.6	340.7	326.8	322.2
67.5°	319.1	305.1	289.6	274.1	264.9
70°	271.1	255.6	241.6	221.5	210.6
72.5°	227.7	213.7	196.7	173.5	165.7
75°	184.3	170.4	151.8	131.7	119.3
77.5°	142.5	131.7	111.5	94.5	92.9
80°	110.0	97.6	74.3	69.7	69.7
82.5°	71.2	63.5	52.7	49.6	49.6
85°	43.4	34.1	31.0	31.0	31.0
87.5°	17.0	15.5	15.5	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)