

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: P295812

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295812
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-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: 3266.0 lumens
Efficiency: N/A
Efficacy: 79.1 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

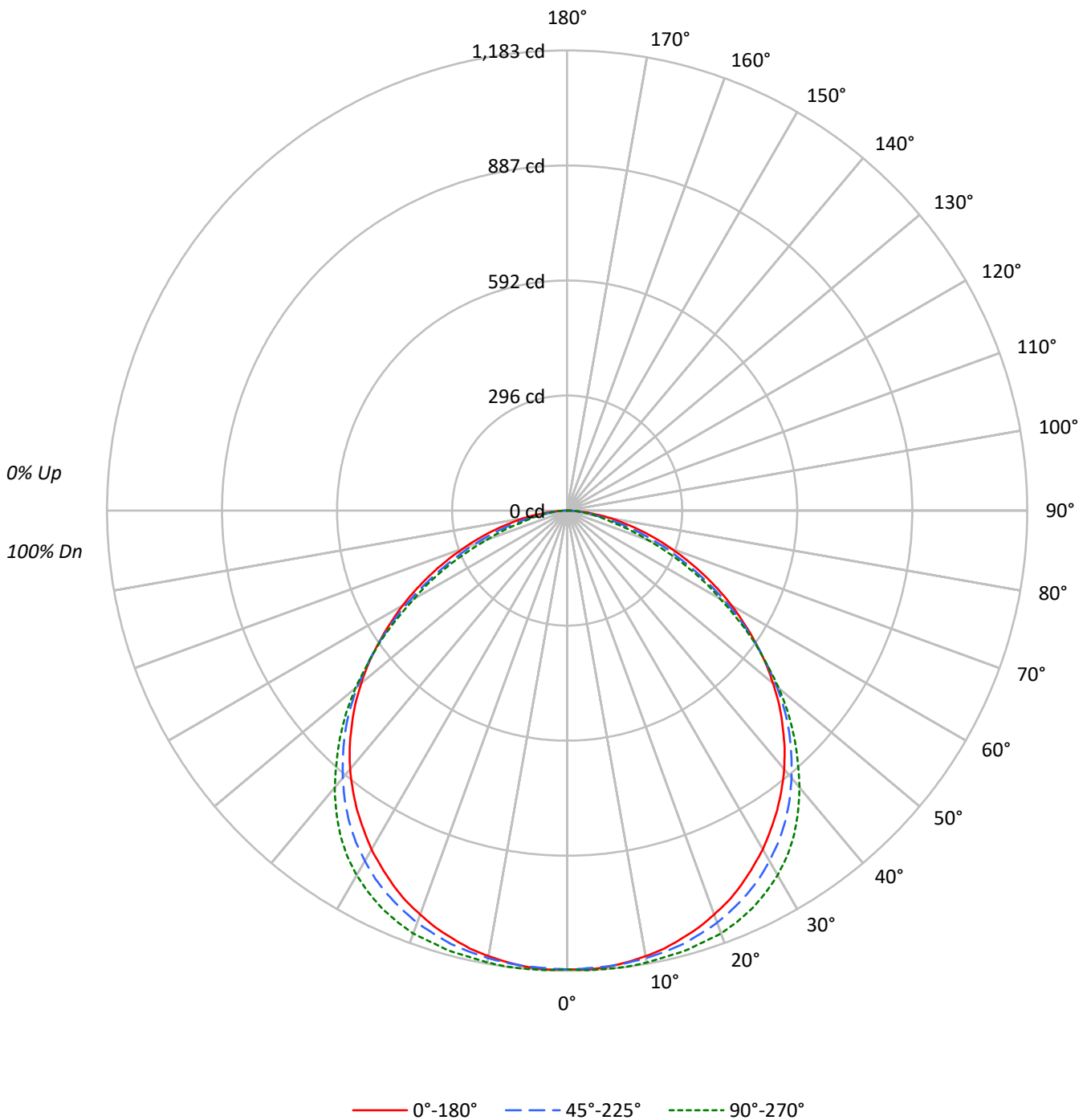
Input Watts (W): 41.292
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3174	3174	3174
5°	3182	3177	3195
10°	3178	3192	3223
15°	3173	3214	3263
20°	3164	3229	3313
25°	3150	3237	3348
30°	3126	3231	3362
35°	3091	3209	3342
40°	3049	3152	3266
45°	2982	3075	3143
50°	2893	2948	2975
55°	2770	2763	2748
60°	2628	2541	2445
65°	2448	2273	2149
70°	2234	1991	1736
75°	2008	1653	1299
80°	1785	1207	1131
85°	1402	1000	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	3.4
10°-20°	326.3	10.0
20°-30°	503.6	15.4
30°-40°	610.8	18.7
40°-50°	620.1	19.0
50°-60°	524.6	16.1
60°-70°	354.9	10.9
70°-80°	171.6	5.3
80°-90°	41.9	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°	942.2	28.8
0°-40°	1552.9	47.5
0°-60°	2697.6	82.6
0°-90°	3266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1178	1178	1176	1181	1183	112
15°	1139	1145	1154	1166	1171	322
25°	1061	1069	1090	1118	1128	489
35°	941	951	977	1008	1017	588
45°	784	785	808	824	826	604
55°	590	586	589	589	586	528
65°	384	368	357	342	338	381
75°	193	178	159	138	125	206
85°	45	36	32	32	32	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.5	1179.5	1179.5	1179.5	1179.5
2.5°	1181.1	1181.1	1177.8	1181.1	1182.7
5°	1177.8	1177.8	1176.2	1181.1	1182.7
7.5°	1171.4	1173.0	1173.0	1179.5	1182.7
10°	1163.2	1166.5	1168.1	1177.8	1179.5
12.5°	1153.5	1156.8	1161.6	1173.0	1174.6
15°	1138.9	1145.4	1153.5	1166.5	1171.4
17.5°	1124.3	1130.8	1140.5	1158.4	1163.2
20°	1104.8	1113.0	1127.6	1148.6	1156.8
22.5°	1085.4	1091.9	1109.7	1135.7	1143.8
25°	1061.0	1069.2	1090.2	1117.8	1127.6
27.5°	1033.5	1044.8	1067.5	1096.7	1106.5
30°	1005.9	1015.6	1039.9	1072.4	1082.1
32.5°	973.4	983.2	1010.7	1041.6	1052.9
35°	941.0	950.7	976.7	1007.5	1017.2
37.5°	905.3	911.8	939.4	965.3	975.1
40°	868.0	872.8	897.2	923.1	929.6
42.5°	827.4	830.7	853.4	876.1	877.7
45°	783.6	785.2	807.9	824.2	825.8
47.5°	739.8	738.2	757.7	769.0	770.6
50°	691.1	691.1	704.1	710.6	710.6
52.5°	642.5	639.2	645.7	650.6	645.7
55°	590.5	585.7	588.9	588.9	585.7
57.5°	538.6	528.9	530.5	527.3	519.2
60°	488.3	477.0	472.1	460.8	454.3
62.5°	436.4	423.4	413.7	400.7	399.1
65°	384.5	368.3	356.9	342.3	337.5
67.5°	334.2	319.6	303.4	287.2	277.4
70°	283.9	267.7	253.1	232.0	220.6
72.5°	238.5	223.9	206.0	181.7	173.6
75°	193.1	178.5	159.0	137.9	124.9
77.5°	149.3	137.9	116.8	99.0	97.3
80°	115.2	102.2	77.9	73.0	73.0
82.5°	74.6	66.5	55.2	51.9	51.9
85°	45.4	35.7	32.4	32.4	32.4
87.5°	17.8	16.2	16.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)