

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: P295809

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295809  
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-5000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3181.0 lumens  
Efficiency: N/A  
Efficacy: 78.8 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

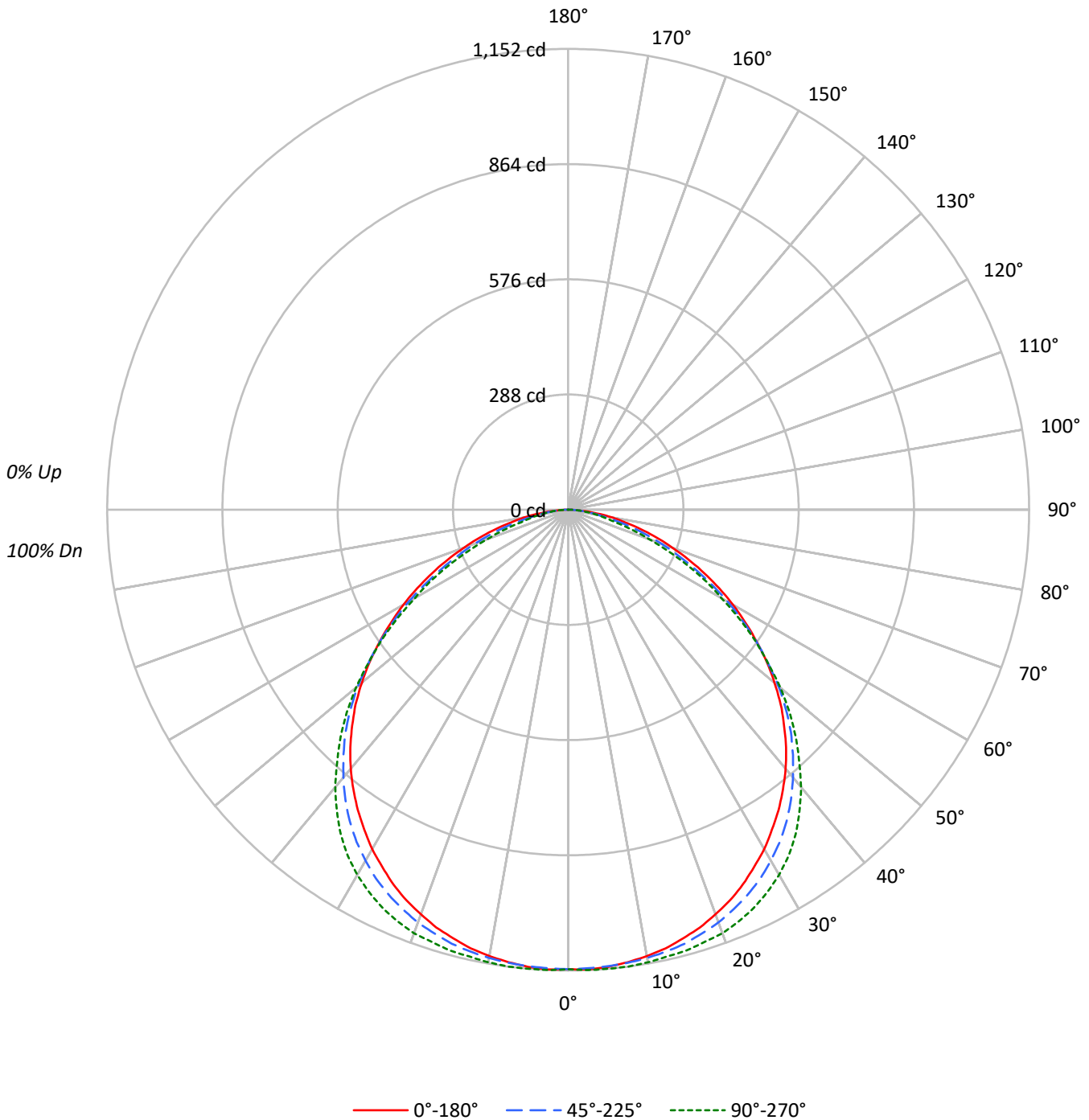
Input Watts (W): 40.362  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3091	3091	3091
5°	3099	3095	3112
10°	3096	3109	3139
15°	3090	3130	3178
20°	3082	3145	3227
25°	3068	3153	3261
30°	3044	3147	3275
35°	3011	3125	3255
40°	2970	3070	3181
45°	2904	2995	3061
50°	2818	2871	2897
55°	2699	2691	2676
60°	2560	2475	2381
65°	2385	2213	2093
70°	2175	1939	1691
75°	1955	1611	1265
80°	1739	1175	1102
85°	1365	976	976



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.3	3.4
10°-20°	317.8	10.0
20°-30°	490.5	15.4
30°-40°	594.9	18.7
40°-50°	604.0	19.0
50°-60°	510.9	16.1
60°-70°	345.7	10.9
70°-80°	167.1	5.3
80°-90°	40.8	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°	917.6	28.8
0°-40°	1512.5	47.5
0°-60°	2627.4	82.6
0°-90°	3181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3181.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1147	1147	1146	1150	1152	109
15°	1109	1116	1124	1136	1141	313
25°	1033	1041	1062	1089	1098	476
35°	916	926	951	981	991	573
45°	763	765	787	803	804	588
55°	575	570	574	574	570	514
65°	374	359	348	333	329	371
75°	188	174	155	134	122	200
85°	44	35	32	32	32	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1148.8	1148.8	1148.8	1148.8	1148.8
2.5°	1150.4	1150.4	1147.2	1150.4	1151.9
5°	1147.2	1147.2	1145.6	1150.4	1151.9
7.5°	1140.9	1142.5	1142.5	1148.8	1151.9
10°	1133.0	1136.1	1137.7	1147.2	1148.8
12.5°	1123.5	1126.7	1131.4	1142.5	1144.0
15°	1109.3	1115.6	1123.5	1136.1	1140.9
17.5°	1095.1	1101.4	1110.9	1128.2	1133.0
20°	1076.1	1084.0	1098.2	1118.8	1126.7
22.5°	1057.1	1063.4	1080.8	1106.1	1114.0
25°	1033.4	1041.3	1061.9	1088.7	1098.2
27.5°	1006.6	1017.6	1039.7	1068.2	1077.7
30°	979.7	989.2	1012.9	1044.5	1054.0
32.5°	948.1	957.6	984.4	1014.5	1025.5
35°	916.5	926.0	951.3	981.3	990.8
37.5°	881.7	888.0	914.9	940.2	949.7
40°	845.4	850.1	873.8	899.1	905.4
42.5°	805.9	809.0	831.2	853.3	854.9
45°	763.2	764.8	786.9	802.7	804.3
47.5°	720.6	719.0	737.9	749.0	750.6
50°	673.1	673.1	685.8	692.1	692.1
52.5°	625.7	622.6	628.9	633.6	628.9
55°	575.2	570.4	573.6	573.6	570.4
57.5°	524.6	515.1	516.7	513.6	505.7
60°	475.6	464.6	459.8	448.8	442.4
62.5°	425.1	412.4	402.9	390.3	388.7
65°	374.5	358.7	347.6	333.4	328.7
67.5°	325.5	311.3	295.5	279.7	270.2
70°	276.5	260.7	246.5	226.0	214.9
72.5°	232.3	218.1	200.7	177.0	169.1
75°	188.0	173.8	154.9	134.3	121.7
77.5°	145.4	134.3	113.8	96.4	94.8
80°	112.2	99.6	75.8	71.1	71.1
82.5°	72.7	64.8	53.7	50.6	50.6
85°	44.2	34.8	31.6	31.6	31.6
87.5°	17.4	15.8	15.8	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)