

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: P295735

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295735
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-L82765-W2A1-U-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3249.0 lumens
Efficiency: N/A
Efficacy: 83.0 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

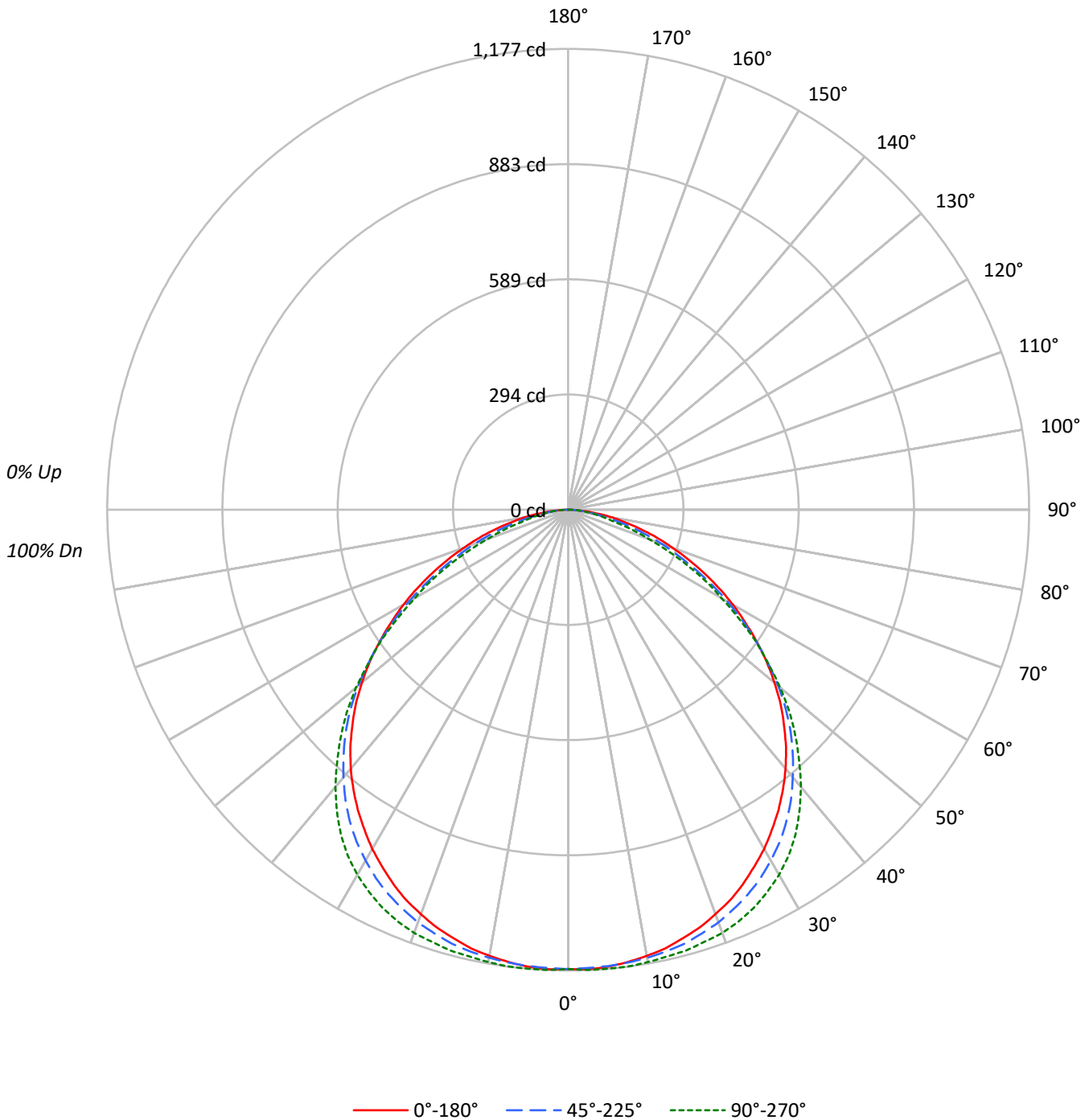
Input Watts (W): 39.153
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3157	3157	3157
5°	3165	3161	3178
10°	3162	3175	3206
15°	3156	3197	3246
20°	3147	3212	3295
25°	3134	3220	3331
30°	3109	3214	3345
35°	3075	3192	3324
40°	3033	3135	3249
45°	2966	3059	3126
50°	2878	2932	2959
55°	2756	2749	2733
60°	2615	2528	2432
65°	2436	2261	2138
70°	2222	1981	1727
75°	1997	1645	1292
80°	1776	1201	1125
85°	1396	997	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.4
10°-20°	324.6	10.0
20°-30°	501.0	15.4
30°-40°	607.6	18.7
40°-50°	616.9	19.0
50°-60°	521.8	16.1
60°-70°	353.1	10.9
70°-80°	170.7	5.3
80°-90°	41.6	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°	937.3	28.8
0°-40°	1544.8	47.5
0°-60°	2683.6	82.6
0°-90°	3249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1172	1172	1170	1175	1177	111
15°	1133	1139	1148	1160	1165	320
25°	1056	1064	1085	1112	1122	486
35°	936	946	972	1002	1012	585
45°	780	781	804	820	822	601
55°	588	583	586	586	583	525
65°	382	366	355	340	336	379
75°	192	178	158	137	124	205
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°	1173.3	1173.3	1173.3	1173.3	1173.3
2.5°	1174.9	1174.9	1171.7	1174.9	1176.6
5°	1171.7	1171.7	1170.1	1174.9	1176.6
7.5°	1165.3	1166.9	1166.9	1173.3	1176.6
10°	1157.2	1160.4	1162.0	1171.7	1173.3
12.5°	1147.5	1150.7	1155.6	1166.9	1168.5
15°	1133.0	1139.4	1147.5	1160.4	1165.3
17.5°	1118.5	1124.9	1134.6	1152.4	1157.2
20°	1099.1	1107.2	1121.7	1142.7	1150.7
22.5°	1079.7	1086.2	1103.9	1129.8	1137.8
25°	1055.5	1063.6	1084.6	1112.0	1121.7
27.5°	1028.1	1039.4	1062.0	1091.0	1100.7
30°	1000.6	1010.3	1034.5	1066.8	1076.5
32.5°	968.4	978.0	1005.5	1036.1	1047.4
35°	936.1	945.8	971.6	1002.3	1011.9
37.5°	900.6	907.0	934.5	960.3	970.0
40°	863.5	868.3	892.5	918.3	924.8
42.5°	823.1	826.3	848.9	871.5	873.1
45°	779.5	781.1	803.7	819.9	821.5
47.5°	736.0	734.3	753.7	765.0	766.6
50°	687.5	687.5	700.4	706.9	706.9
52.5°	639.1	635.9	642.3	647.2	642.3
55°	587.5	582.6	585.9	585.9	582.6
57.5°	535.8	526.1	527.8	524.5	516.5
60°	485.8	474.5	469.7	458.4	451.9
62.5°	434.1	421.2	411.6	398.6	397.0
65°	382.5	366.4	355.1	340.5	335.7
67.5°	332.5	317.9	301.8	285.7	276.0
70°	282.4	266.3	251.8	230.8	219.5
72.5°	237.2	222.7	205.0	180.8	172.7
75°	192.1	177.5	158.2	137.2	124.3
77.5°	148.5	137.2	116.2	98.5	96.8
80°	114.6	101.7	77.5	72.6	72.6
82.5°	74.2	66.2	54.9	51.6	51.6
85°	45.2	35.5	32.3	32.3	32.3
87.5°	17.8	16.1	16.1	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)