

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: P229510

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-RDP-UNV-L940-CD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH RDP LENS
Light Source: (112)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2686.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

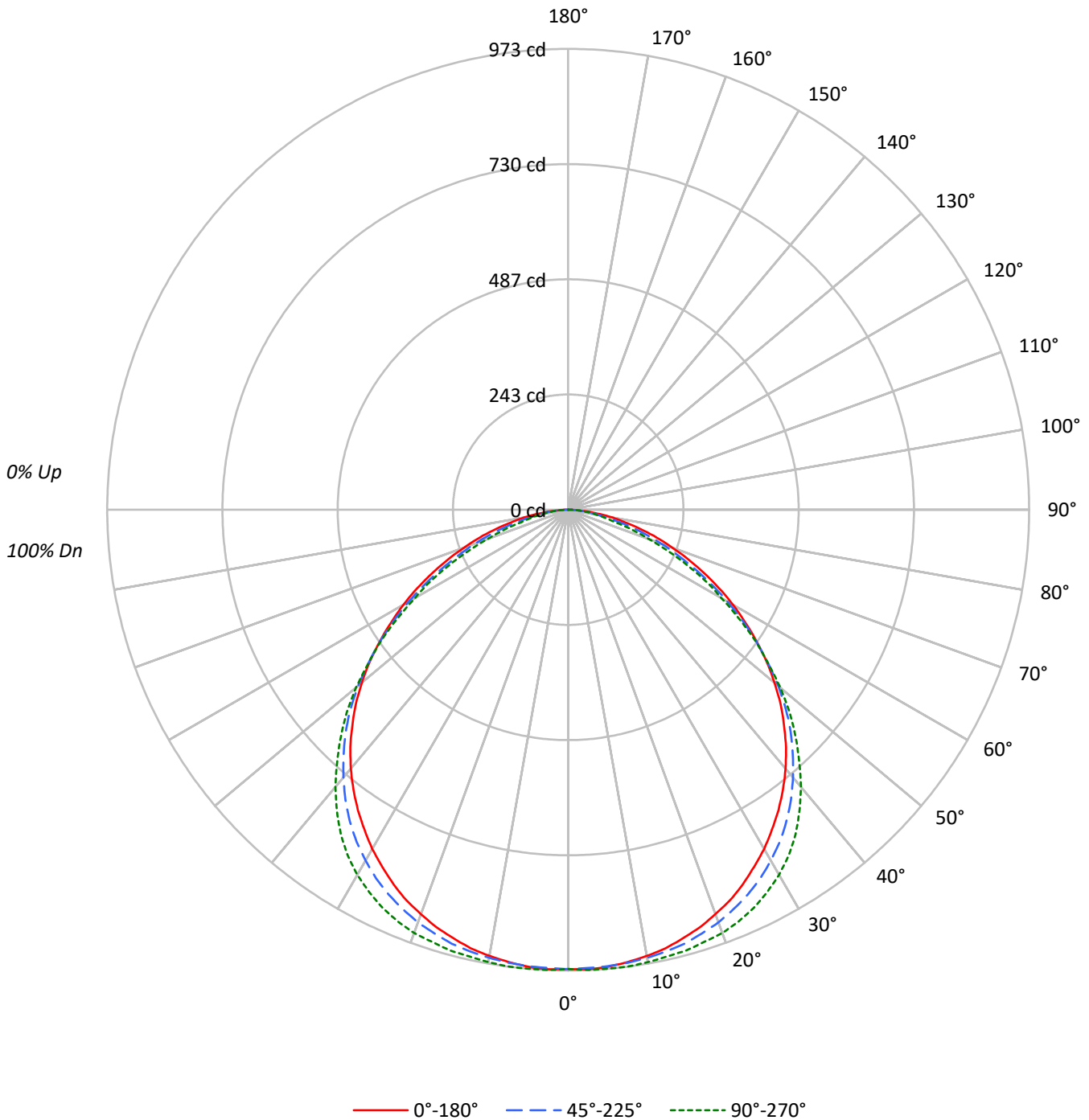
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3269	3269	3269
5°	3277	3272	3290
10°	3273	3287	3319
15°	3268	3309	3360
20°	3258	3325	3411
25°	3244	3333	3448
30°	3219	3328	3463
35°	3183	3304	3441
40°	3140	3246	3363
45°	3071	3167	3236
50°	2980	3036	3064
55°	2853	2845	2830
60°	2706	2617	2518
65°	2521	2340	2213
70°	2300	2050	1788
75°	2067	1703	1337
80°	1838	1242	1164
85°	1446	1032	1032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.4
10°-20°	268.4	10.0
20°-30°	414.2	15.4
30°-40°	502.3	18.7
40°-50°	510.0	19.0
50°-60°	431.4	16.1
60°-70°	291.9	10.9
70°-80°	141.1	5.3
80°-90°	34.4	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°	774.9	28.8
0°-40°	1277.2	47.5
0°-60°	2218.5	82.6
0°-90°	2686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	969	969	967	971	973	92
15°	937	942	949	959	963	265
25°	873	879	897	919	927	402
35°	774	782	803	829	837	484
45°	644	646	664	678	679	497
55°	486	482	484	484	482	434
65°	316	303	294	282	278	313
75°	159	147	131	113	103	169
85°	37	29	27	27	27	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.0	970.0	970.0	970.0	970.0
2.5°	971.3	971.3	968.7	971.3	972.7
5°	968.7	968.7	967.3	971.3	972.7
7.5°	963.3	964.7	964.7	970.0	972.7
10°	956.7	959.3	960.7	968.7	970.0
12.5°	948.7	951.3	955.3	964.7	966.0
15°	936.7	942.0	948.7	959.3	963.3
17.5°	924.6	930.0	938.0	952.7	956.7
20°	908.6	915.3	927.3	944.7	951.3
22.5°	892.6	898.0	912.6	934.0	940.7
25°	872.6	879.3	896.6	919.3	927.3
27.5°	849.9	859.3	877.9	902.0	910.0
30°	827.2	835.3	855.3	882.0	890.0
32.5°	800.6	808.6	831.2	856.6	865.9
35°	773.9	781.9	803.2	828.6	836.6
37.5°	744.5	749.9	772.5	793.9	801.9
40°	713.8	717.8	737.9	759.2	764.5
42.5°	680.5	683.1	701.8	720.5	721.8
45°	644.5	645.8	664.5	677.8	679.1
47.5°	608.4	607.1	623.1	632.4	633.8
50°	568.4	568.4	579.1	584.4	584.4
52.5°	528.4	525.7	531.0	535.0	531.0
55°	485.7	481.7	484.3	484.3	481.7
57.5°	443.0	435.0	436.3	433.6	427.0
60°	401.6	392.3	388.3	378.9	373.6
62.5°	358.9	348.2	340.2	329.6	328.2
65°	316.2	302.9	293.5	281.5	277.5
67.5°	274.9	262.9	249.5	236.2	228.2
70°	233.5	220.2	208.1	190.8	181.5
72.5°	196.1	184.1	169.5	149.4	142.8
75°	158.8	146.8	130.8	113.4	102.7
77.5°	122.8	113.4	96.1	81.4	80.1
80°	94.7	84.1	64.0	60.0	60.0
82.5°	61.4	54.7	45.4	42.7	42.7
85°	37.4	29.4	26.7	26.7	26.7
87.5°	14.7	13.3	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)