

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: P229555

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-2)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-RDP-UNV-L840-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (112)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2963.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.31 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

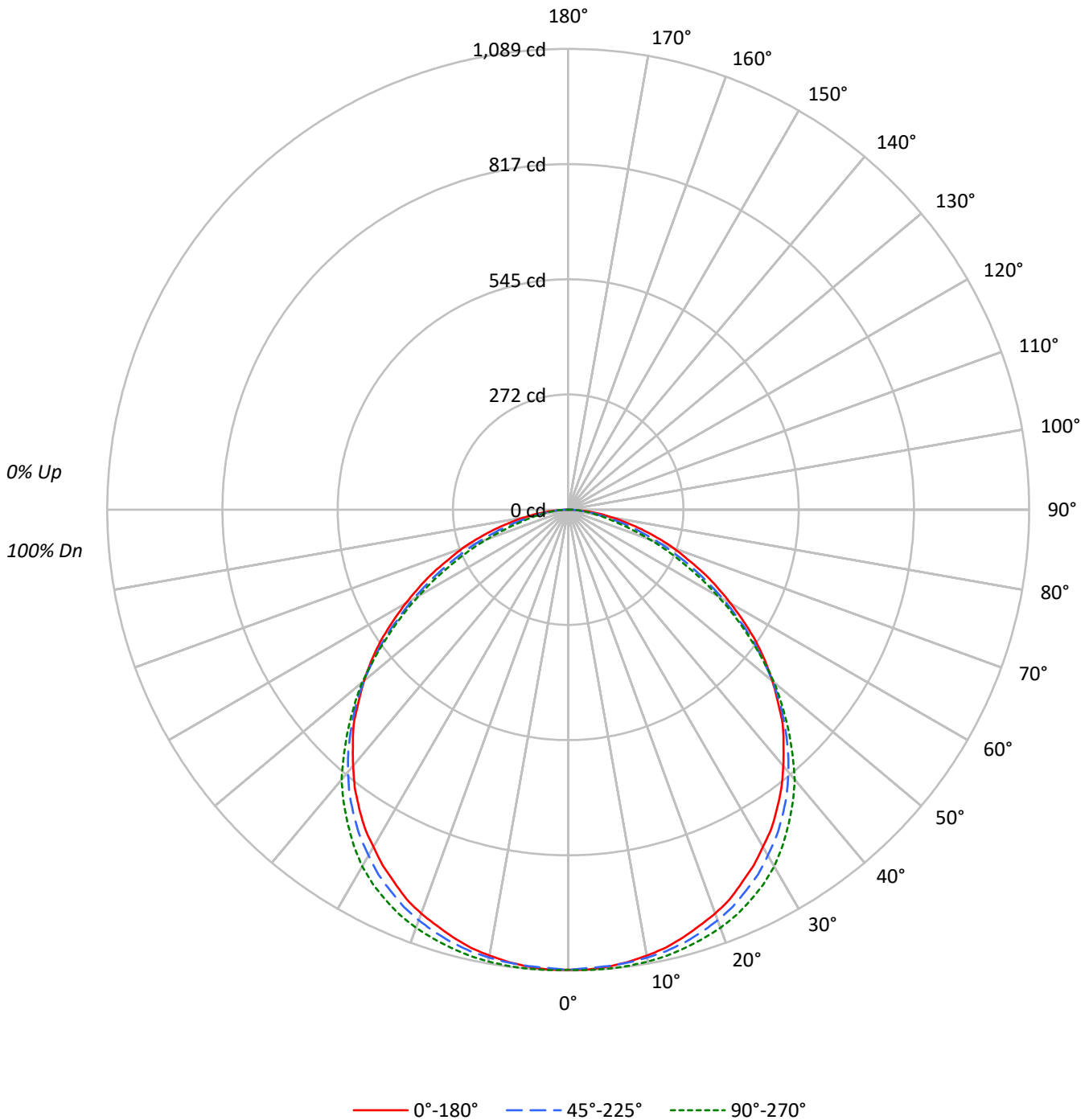
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229555

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L840-CD1-SVPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229555

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L840-CD1-SVPD1-U

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	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3664	3664	3664
5°	3667	3662	3683
10°	3661	3678	3709
15°	3651	3695	3739
20°	3641	3703	3770
25°	3613	3694	3787
30°	3580	3671	3787
35°	3541	3631	3733
40°	3477	3559	3662
45°	3417	3447	3506
50°	3300	3300	3333
55°	3175	3102	3056
60°	2990	2853	2748
65°	2803	2566	2391
70°	2601	2262	2001
75°	2338	1911	1586
80°	2032	1484	1333
85°	1751	1268	1268



TEST NUMBER: P229555

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L840-CD1-SVPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	3.5
10°-20°	299.2	10.1
20°-30°	458.8	15.5
30°-40°	552.6	18.6
40°-50°	558.3	18.8
50°-60°	471.2	15.9
60°-70°	320.3	10.8
70°-80°	158.7	5.4
80°-90°	40.6	1.4
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°	861.4	29.1
0°-40°	1413.9	47.7
0°-60°	2443.4	82.5
0°-90°	2963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1084	1084	1083	1087	1089	103
15°	1047	1051	1059	1068	1072	295
25°	972	980	994	1014	1018	448
35°	861	867	883	903	908	538
45°	717	712	723	736	736	550
55°	540	530	528	523	520	481
65°	352	334	322	306	300	348
75°	180	166	147	128	122	191
85°	45	34	33	33	33	52
90°	0	0	0	0	0	



TEST NUMBER: P229555

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L840-CD1-SVPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.3	1087.3	1087.3	1087.3	1087.3
2.5°	1087.3	1087.3	1084.1	1088.8	1088.8
5°	1084.1	1084.1	1082.6	1087.3	1088.8
7.5°	1077.9	1079.5	1079.5	1085.7	1087.3
10°	1070.1	1071.7	1074.8	1082.6	1084.1
12.5°	1060.7	1063.8	1068.5	1076.3	1079.5
15°	1046.7	1051.3	1059.2	1068.5	1071.7
17.5°	1031.0	1037.3	1046.7	1059.2	1062.3
20°	1015.4	1020.1	1032.6	1046.7	1051.3
22.5°	996.7	1002.9	1015.4	1031.0	1037.3
25°	971.7	979.5	993.5	1013.9	1018.5
27.5°	948.2	956.0	971.7	992.0	998.2
30°	920.1	929.5	943.6	965.4	973.2
32.5°	893.6	898.2	915.4	935.7	942.0
35°	860.8	867.0	882.6	902.9	907.6
37.5°	828.0	832.6	848.3	867.0	871.7
40°	790.5	795.1	809.2	828.0	832.6
42.5°	753.0	756.1	768.6	784.2	784.2
45°	717.0	712.4	723.3	735.8	735.8
47.5°	671.7	671.7	679.5	685.8	685.8
50°	629.6	626.4	629.6	632.7	635.8
52.5°	585.8	579.6	578.0	578.0	576.4
55°	540.5	529.6	528.0	523.3	520.2
57.5°	490.5	482.7	473.3	467.1	464.0
60°	443.7	429.6	423.3	412.4	407.7
62.5°	396.8	384.3	370.2	359.3	354.6
65°	351.5	334.3	321.8	306.2	299.9
67.5°	304.6	289.0	273.4	259.3	253.1
70°	264.0	245.3	229.6	209.3	203.1
72.5°	221.8	204.6	185.9	167.2	159.3
75°	179.6	165.6	146.8	128.1	121.8
77.5°	140.6	128.1	109.4	93.7	92.2
80°	104.7	93.7	76.5	70.3	68.7
82.5°	75.0	62.5	51.6	50.0	50.0
85°	45.3	34.4	32.8	32.8	32.8
87.5°	17.2	15.6	17.2	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)