

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: NEO-RAY

Report Number: P334406

Luminaire Tested: **S125RDP-S610D830-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDP-S610D830-4F0-1E-UDD-F
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 610 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2117.1 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

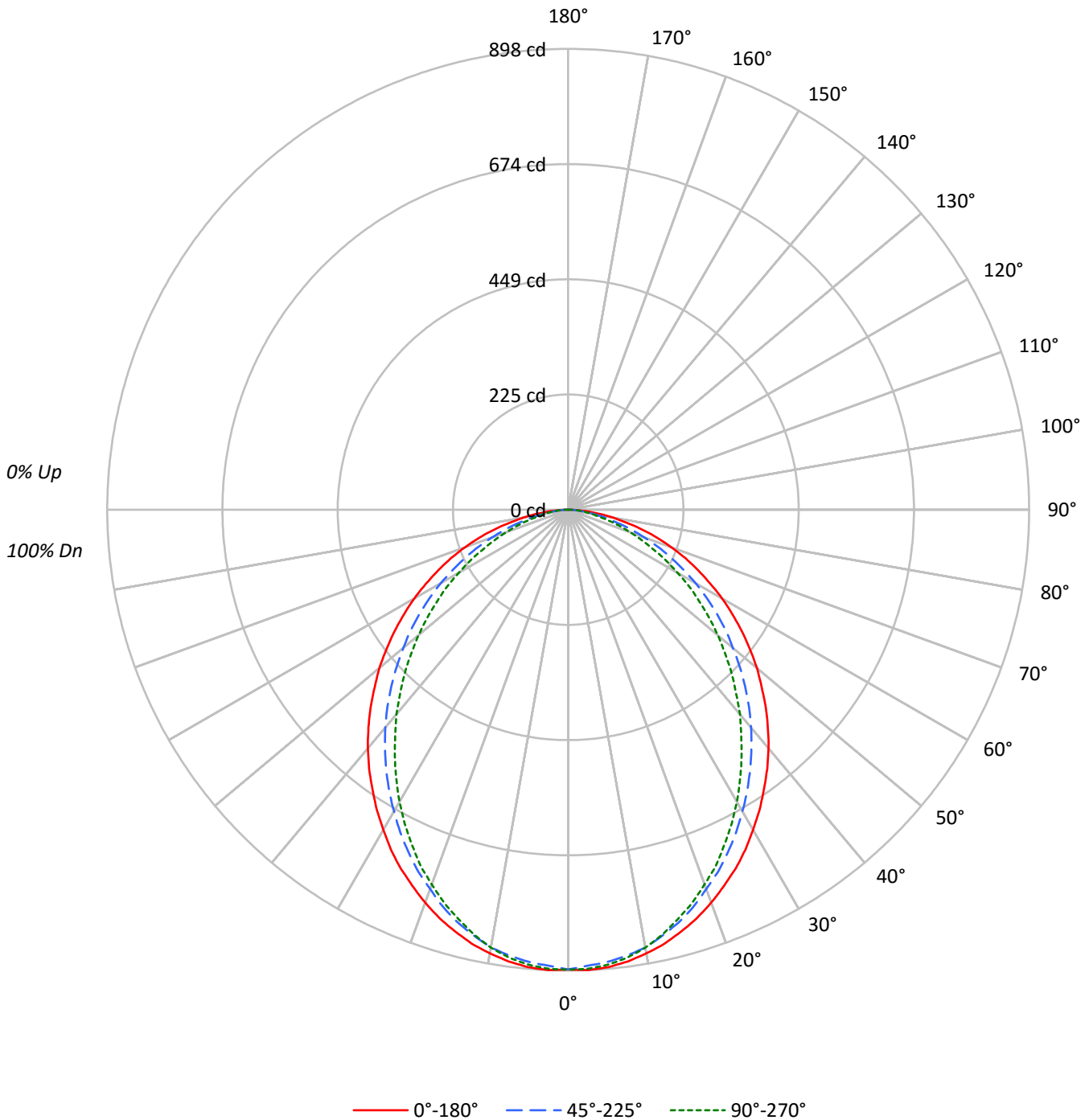
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334406

CATALOG NUMBER: S125RDP-S610D830-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P334406

CATALOG NUMBER: S125RDP-S610D830-4F0-1E-UDD-F

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	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5787	5787	5787
5°	5800	5734	5770
10°	5757	5681	5681
15°	5688	5566	5521
20°	5600	5405	5339
25°	5498	5247	5131
30°	5370	5062	4900
35°	5240	4872	4642
40°	5118	4673	4387
45°	4970	4451	4111
50°	4821	4209	3821
55°	4648	3978	3513
60°	4476	3698	3181
65°	4271	3371	2803
70°	4039	2965	2415
75°	3716	2500	2009
80°	3273	1964	1685
85°	2757	1608	1504



TEST NUMBER: P334406

CATALOG NUMBER: S125RDP-S610D830-4F0-1E-UDD-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	4.0
10°-20°	235.7	11.1
20°-30°	341.7	16.1
30°-40°	389.3	18.4
40°-50°	379.5	17.9
50°-60°	319.4	15.1
60°-70°	223.8	10.6
70°-80°	114.7	5.4
80°-90°	28.6	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°	661.7	31.3
0°-40°	1051.1	49.6
0°-60°	1749.9	82.7
0°-90°	2117.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2117.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	895	892	884	891	890	85
15°	851	847	832	832	826	240
25°	772	761	736	728	720	355
35°	665	648	618	598	589	416
45°	544	524	487	460	450	420
55°	413	391	353	323	312	369
65°	280	256	221	194	183	277
75°	149	129	100	85	80	157
85°	37	25	22	21	20	43
90°	0	0	0	0	0	



TEST NUMBER: P334406

CATALOG NUMBER: S125RDP-S610D830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	896.0	896.0	896.0	896.0	896.0
2.5°	898.1	896.0	889.3	896.0	895.4
5°	894.7	892.0	884.5	891.3	890.0
7.5°	887.9	885.2	876.4	881.8	880.5
10°	877.8	875.7	866.3	868.3	866.3
12.5°	866.3	863.6	850.0	851.4	848.0
15°	850.7	846.6	832.4	831.8	825.7
17.5°	834.5	828.4	811.4	808.1	803.3
20°	814.8	808.1	786.4	783.0	776.9
22.5°	793.2	786.4	763.4	756.0	751.2
25°	771.5	761.4	736.3	727.5	720.1
27.5°	747.2	735.0	708.6	697.1	689.6
30°	720.1	707.2	678.8	663.2	657.1
32.5°	693.7	678.1	649.0	631.4	623.3
35°	664.6	648.3	617.9	598.3	588.8
37.5°	636.8	617.2	586.1	563.1	553.6
40°	607.1	586.8	554.3	528.6	520.4
42.5°	575.9	555.0	521.1	496.7	483.9
45°	544.1	524.5	487.3	460.2	450.1
47.5°	511.0	490.7	453.4	425.7	414.2
50°	479.8	457.5	418.9	390.5	380.3
52.5°	446.0	423.0	387.1	356.0	345.8
55°	412.8	391.2	353.3	322.8	312.0
57.5°	379.0	356.0	319.4	289.7	280.2
60°	346.5	322.8	286.3	256.5	246.3
62.5°	312.0	289.7	252.4	225.4	215.2
65°	279.5	256.5	220.6	193.6	183.4
67.5°	247.0	224.0	189.5	163.8	155.7
70°	213.9	190.8	157.0	136.0	127.9
72.5°	181.4	159.0	127.9	109.0	104.2
75°	148.9	128.6	100.2	85.3	80.5
77.5°	115.7	99.5	75.8	64.3	60.2
80°	88.0	71.7	52.8	46.7	45.3
82.5°	60.9	46.7	35.2	33.2	32.5
85°	37.2	25.0	21.7	21.0	20.3
87.5°	15.6	10.8	10.2	10.2	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)