

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: P243715

Luminaire Tested: **S125DR-H610D930-X4F0-XX-UDD-D-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-56)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-H610D930-X4F0-XX-UDD-D-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN DROP DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1826.1 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.39' x L: 3.88' x H: 0.08')
CIE Type: Direct

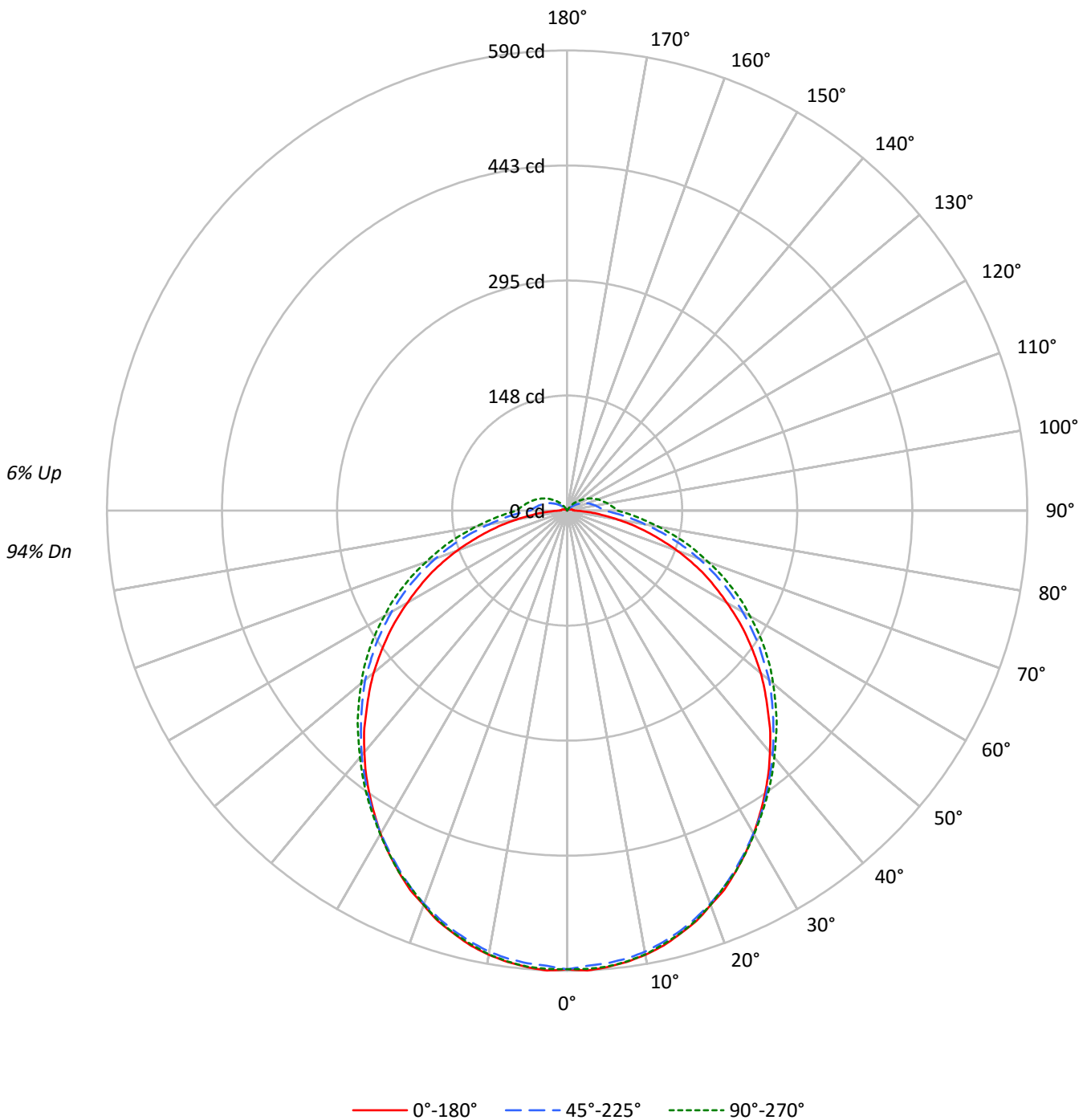
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243715

CATALOG NUMBER: S125DR-H610D930-X4F0-XX-UDD-D-W

Luminous Intensity Polar Plot





TEST NUMBER: P243715

CATALOG NUMBER: S125DR-H610D930-X4F0-XX-UDD-D-W

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	96	92	103	98	94	90	93	89	86	88	85	82	83	81	79	76
2	96	88	80	74	93	85	78	73	81	75	70	76	72	68	72	69	65	63
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	53
4	80	68	59	52	77	66	58	51	63	55	50	60	53	48	57	51	47	45
5	74	60	51	44	71	59	50	44	56	49	43	53	47	42	51	45	41	39
6	68	54	45	39	66	53	45	38	51	43	38	48	42	37	46	40	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	37	33	42	36	32	30
8	59	45	36	30	57	44	36	30	42	35	30	40	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4180	4180	4180
5°	4184	4098	4111
10°	4158	4028	4019
15°	4108	3932	3904
20°	4038	3827	3773
25°	3967	3703	3644
30°	3877	3578	3503
35°	3782	3456	3377
40°	3686	3337	3251
45°	3584	3219	3147
50°	3493	3121	3038
55°	3378	3000	2938
60°	3240	2868	2810
65°	3128	2730	2684
70°	2943	2560	2521
75°	2695	2359	2378
80°	2400	2142	2195
85°	2134	2004	2090



TEST NUMBER: P243715

CATALOG NUMBER: S125DR-H610D930-X4F0-XX-UDD-D-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.0
10°-20°	158.1	8.7
20°-30°	235.4	12.9
30°-40°	278.8	15.3
40°-50°	288.5	15.8
50°-60°	266.1	14.6
60°-70°	215.0	11.8
70°-80°	143.7	7.9
80°-90°	74.1	4.1
90°-100°	41.6	2.3
100°-110°	30.9	1.7
110°-120°	20.5	1.1
120°-130°	11.5	0.6
130°-140°	5.2	0.3
140°-150°	1.1	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	449.1	24.6
0°-40°	727.9	39.9
0°-60°	1282.5	70.2
0°-90°	1715.4	93.9
90°-120°	93.0	5.1
90°-150°	110.7	6.1
90°-180°	111.0	6.1
0°-180°	1826.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	588	587	583	587	587	56
15°	562	563	558	562	561	158
25°	511	513	509	512	511	235
35°	442	446	445	447	447	277
45°	364	370	373	379	380	281
55°	281	290	300	307	309	251
65°	195	206	220	230	233	192
75°	106	122	139	151	156	113
85°	33	51	71	84	88	34
90°	9	27	47	60	65	6
95°	8	23	42	54	58	6
105°	5	15	32	44	47	6
115°	4	8	22	33	36	4
125°	2	2	13	21	25	2
135°	1	1	5	12	15	1
145°	0	0	0	3	5	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P243715

CATALOG NUMBER: S125DR-H610D930-X4F0-XX-UDD-D-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	588.1	588.1	588.1	588.1	588.1
2.5°	590.3	588.7	584.3	588.7	588.1
5°	587.6	587.0	582.7	587.0	587.0
7.5°	583.8	583.2	579.4	583.8	583.2
10°	578.3	578.3	574.5	577.8	577.8
12.5°	571.3	571.3	566.9	570.7	569.6
15°	561.5	563.1	558.2	561.5	560.9
17.5°	551.7	551.7	547.9	550.6	550.6
20°	538.1	540.3	536.5	539.2	537.6
22.5°	526.2	527.2	523.4	526.2	523.4
25°	510.9	513.1	508.8	511.5	510.9
27.5°	495.2	496.8	493.5	496.8	495.2
30°	478.3	480.0	477.8	480.0	479.4
32.5°	460.4	463.6	462.0	463.6	463.1
35°	442.4	445.7	444.6	446.8	447.3
37.5°	424.0	427.2	427.2	429.9	430.5
40°	404.4	408.7	409.8	413.6	413.1
42.5°	385.4	389.7	391.4	396.2	396.2
45°	364.2	370.2	373.4	379.4	379.9
47.5°	344.1	350.6	355.5	360.9	362.0
50°	324.0	329.9	338.1	343.5	344.6
52.5°	302.2	309.8	318.0	325.6	327.8
55°	281.0	289.7	299.5	306.6	309.3
57.5°	259.3	268.5	279.4	288.1	290.3
60°	236.4	247.3	259.8	268.5	270.7
62.5°	215.2	227.2	240.2	249.5	252.7
65°	194.6	206.0	220.1	229.9	232.6
67.5°	172.3	184.8	199.5	210.4	213.1
70°	150.0	163.6	179.4	189.7	192.4
72.5°	127.2	142.4	159.3	170.7	173.9
75°	106.0	121.8	139.1	151.1	155.5
77.5°	85.9	102.2	119.6	132.1	135.9
80°	65.8	82.6	101.6	114.7	118.5
82.5°	47.8	65.8	85.3	98.4	102.2
85°	32.6	51.1	71.2	83.7	88.1
87.5°	20.1	38.0	58.7	71.2	75.6
90°	9.2	27.2	47.3	60.3	64.7
92.5°	8.2	25.0	44.6	57.6	61.4
95°	7.6	22.8	41.9	54.4	58.2
97.5°	7.1	20.7	39.1	51.6	55.4
100°	6.5	18.5	37.0	48.9	52.7
102.5°	6.0	16.8	34.2	46.2	49.5
105°	5.4	14.7	32.1	43.5	47.3
107.5°	4.9	12.5	29.9	40.8	44.6
110°	4.3	10.9	27.2	38.0	41.9



TEST NUMBER: P243715

CATALOG NUMBER: S125DR-H610D930-X4F0-XX-UDD-D-W

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.8	9.2	25.0	35.3	39.1
115°	3.8	7.6	22.3	32.6	36.4
117.5°	3.3	6.0	19.6	29.9	33.7
120°	2.7	4.3	17.4	27.2	31.0
122.5°	2.7	3.3	15.2	24.5	28.3
125°	2.2	2.2	13.0	21.2	25.0
127.5°	2.2	1.6	10.9	19.0	21.7
130°	1.6	1.1	9.2	16.8	19.6
132.5°	1.6	1.1	7.1	14.7	17.4
135°	1.1	1.1	4.9	12.5	14.7
137.5°	1.1	0.5	3.3	9.8	12.5
140°	0.5	0.5	1.1	7.6	9.8
142.5°	0.5	0.5	0.5	5.4	7.6
145°	0.5	0.0	0.0	3.3	4.9
147.5°	0.5	0.0	0.0	1.1	2.7
150°	0.0	0.0	0.0	0.0	0.5
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)