

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: P334421

Luminaire Tested: **S125RDS-S610D927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334421  
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: S125RDS-S610D927-4F0-1E-UDD-F  
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 610 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1779.3 lumens  
Efficiency: N/A  
Efficacy: 94.6 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

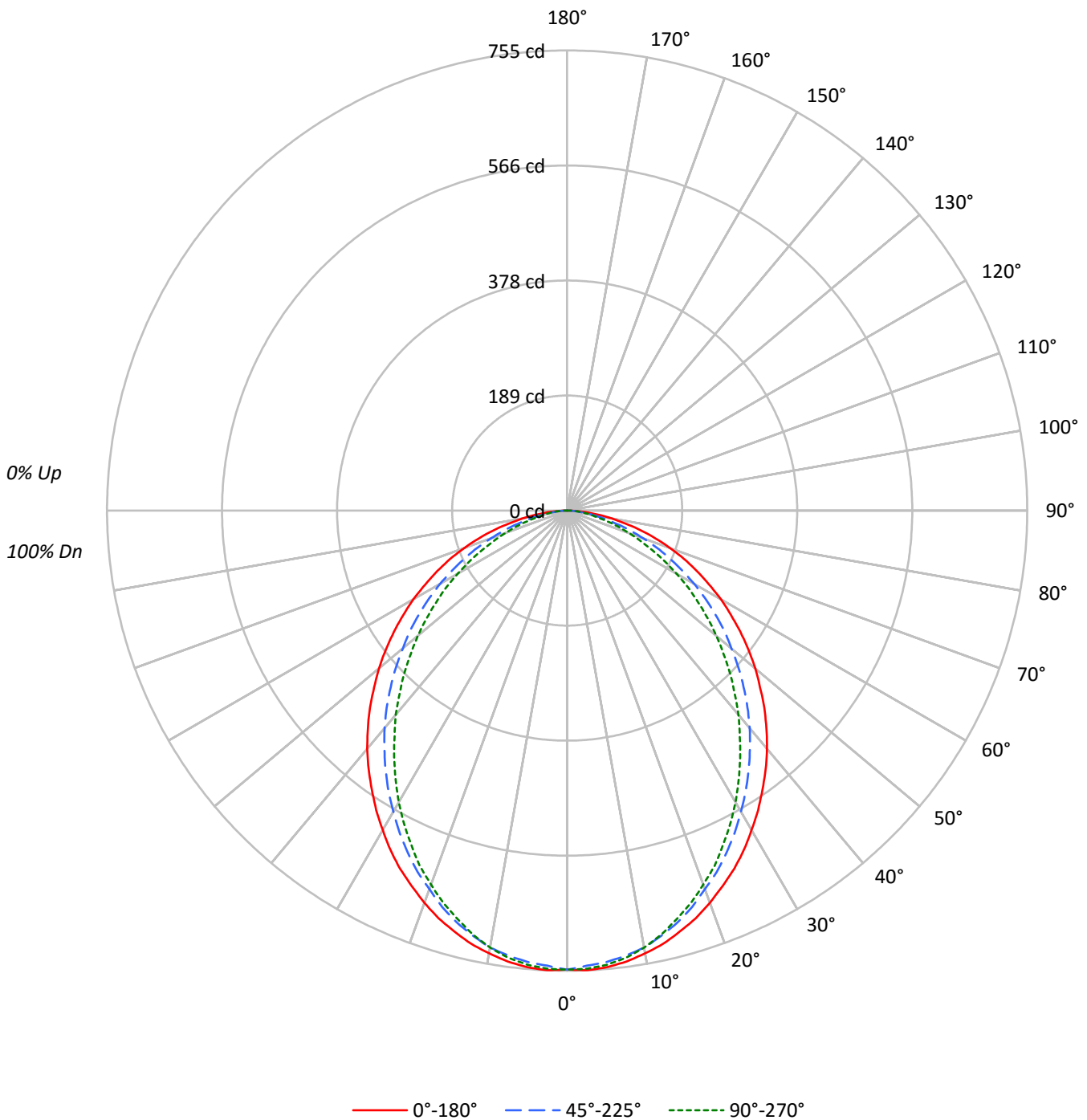
Input Watts (W): 18.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4864	4864	4864
5°	4875	4819	4849
10°	4838	4775	4775
15°	4781	4678	4640
20°	4707	4543	4488
25°	4620	4410	4313
30°	4513	4254	4119
35°	4404	4094	3902
40°	4301	3928	3688
45°	4177	3740	3455
50°	4052	3538	3212
55°	3907	3343	2952
60°	3761	3108	2674
65°	3590	2833	2355
70°	3393	2493	2030
75°	3122	2101	1689
80°	2748	1651	1417
85°	2319	1349	1267



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.9	4.0
10°-20°	198.1	11.1
20°-30°	287.2	16.1
30°-40°	327.2	18.4
40°-50°	318.9	17.9
50°-60°	268.4	15.1
60°-70°	188.1	10.6
70°-80°	96.4	5.4
80°-90°	24.0	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°	556.2	31.3
0°-40°	883.4	49.6
0°-60°	1470.7	82.7
0°-90°	1779.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1779.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	752	750	743	749	748	71
15°	715	712	700	699	694	202
25°	648	640	619	612	605	298
35°	559	545	519	503	495	350
45°	457	441	410	387	378	353
55°	347	329	297	271	262	310
65°	235	216	185	163	154	233
75°	125	108	84	72	68	132
85°	31	21	18	18	17	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	753.1	753.1	753.1	753.1	753.1
2.5°	754.8	753.1	747.4	753.1	752.5
5°	752.0	749.7	743.4	749.1	748.0
7.5°	746.3	744.0	736.6	741.2	740.0
10°	737.7	736.0	728.1	729.8	728.1
12.5°	728.1	725.8	714.4	715.6	712.7
15°	715.0	711.6	699.6	699.1	693.9
17.5°	701.3	696.2	682.0	679.2	675.2
20°	684.8	679.2	661.0	658.1	653.0
22.5°	666.6	661.0	641.6	635.4	631.4
25°	648.4	639.9	618.9	611.5	605.2
27.5°	628.0	617.7	595.5	585.9	579.6
30°	605.2	594.4	570.5	557.4	552.3
32.5°	583.0	569.9	545.5	530.7	523.9
35°	558.6	544.9	519.3	502.8	494.9
37.5°	535.2	518.8	492.6	473.2	465.3
40°	510.2	493.2	465.9	444.2	437.4
42.5°	484.1	466.4	438.0	417.5	406.7
45°	457.3	440.8	409.5	386.8	378.3
47.5°	429.4	412.4	381.1	357.8	348.1
50°	403.3	384.5	352.1	328.2	319.7
52.5°	374.8	355.5	325.4	299.2	290.7
55°	347.0	328.8	296.9	271.3	262.2
57.5°	318.5	299.2	268.5	243.4	235.5
60°	291.2	271.3	240.6	215.6	207.0
62.5°	262.2	243.4	212.2	189.4	180.9
65°	234.9	215.6	185.4	162.7	154.1
67.5°	207.6	188.3	159.3	137.7	130.8
70°	179.7	160.4	132.0	114.3	107.5
72.5°	152.4	133.7	107.5	91.6	87.6
75°	125.1	108.1	84.2	71.7	67.7
77.5°	97.3	83.6	63.7	54.0	50.6
80°	73.9	60.3	44.4	39.2	38.1
82.5°	51.2	39.2	29.6	27.9	27.3
85°	31.3	21.0	18.2	17.6	17.1
87.5°	13.1	9.1	8.5	8.5	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)