

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061743

Luminaire Tested: S125RDR-S610D940-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D940-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

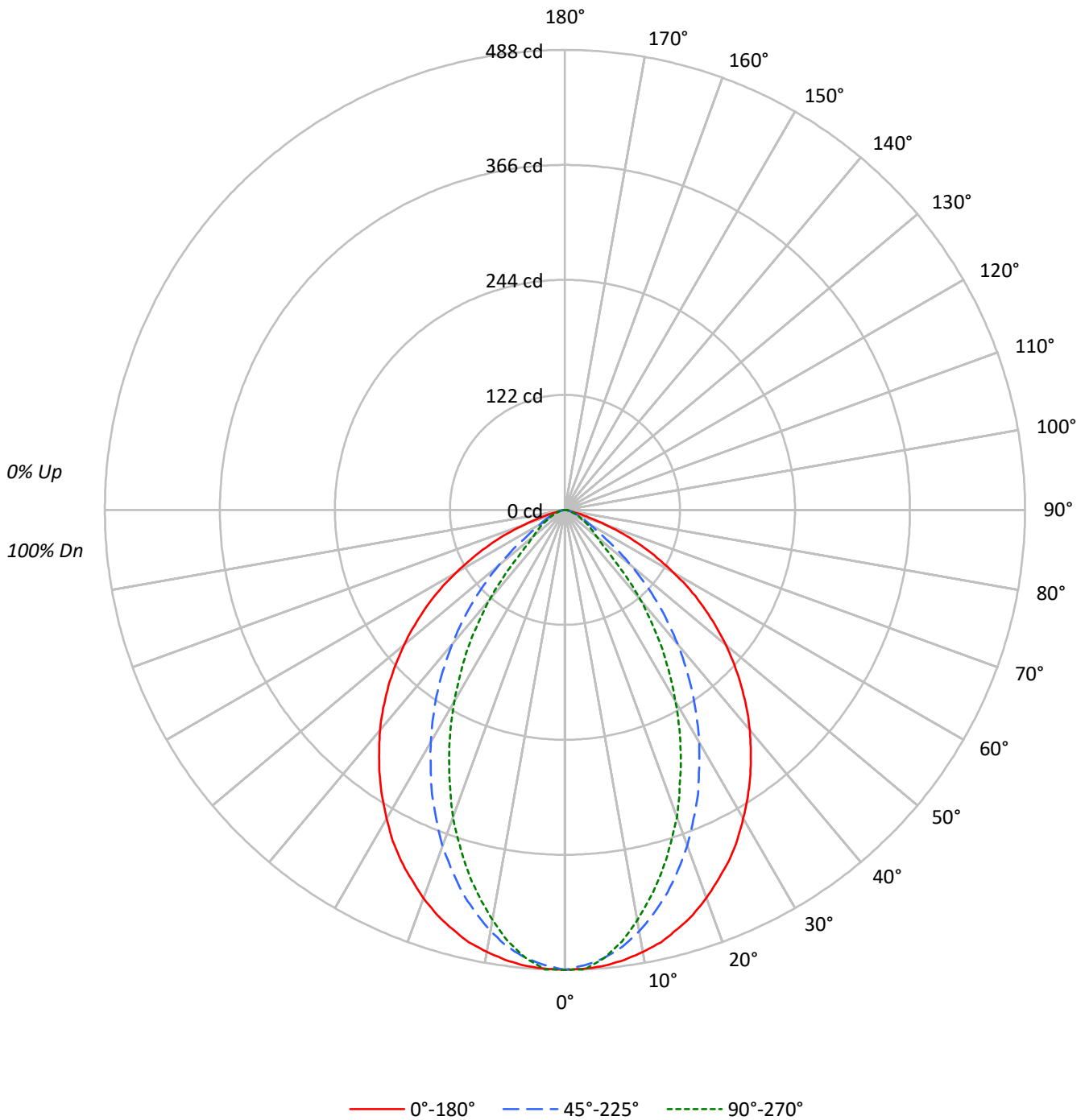
Lumens per Lamp: N/A
Luminaire Lumens: 705.7 lumens
Efficiency: N/A
Efficacy: 36.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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: 24 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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52				
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47				
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43				
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3360	3360	3360
5°	3356	3300	3300
10°	3329	3173	3091
15°	3284	2997	2833
20°	3212	2781	2544
25°	3123	2534	2209
30°	3007	2263	1864
35°	2882	1980	1511
40°	2742	1672	1120
45°	2578	1341	676
50°	2384	983	465
55°	2151	603	387
60°	1827	410	307
65°	1445	313	243
70°	912	225	199
75°	298	165	165
80°	99	123	147
85°	47	95	95

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2578 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	6.4
10°-20°	119.2	16.9
20°-30°	156.8	22.2
30°-40°	154.0	21.8
40°-50°	116.5	16.5
50°-60°	70.7	10.0
60°-70°	33.4	4.7
70°-80°	8.7	1.2
80°-90°	1.3	0.2
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°	321.1	45.5
0°-40°	475.1	67.3
0°-60°	662.3	93.9
0°-90°	705.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	705.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	488	488	488	488	488	
5°	486	484	477	478	477	46
15°	461	448	420	404	398	130
25°	411	380	334	303	291	189
35°	343	297	236	194	180	214
45°	265	208	138	87	69	204
55°	179	123	50	34	32	160
65°	89	45	19	16	15	87
75°	11	7	6	6	6	17
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	488.0	488.0	488.0	488.0	488.0
2.5°	487.4	487.4	483.6	488.0	488.0
5°	485.5	484.3	477.4	478.1	477.4
7.5°	481.8	479.3	467.5	464.4	461.9
10°	476.2	471.2	453.9	446.4	442.1
12.5°	470.0	461.3	437.8	427.2	420.4
15°	460.7	448.3	420.4	404.3	397.5
17.5°	450.8	432.8	399.9	380.7	372.0
20°	438.4	417.3	379.5	355.9	347.2
22.5°	424.7	399.9	355.9	329.9	318.1
25°	411.1	380.1	333.6	302.6	290.8
27.5°	395.6	360.3	308.2	275.9	262.9
30°	378.2	340.4	284.6	251.1	234.4
32.5°	360.9	319.9	259.8	223.2	206.5
35°	342.9	297.0	235.6	194.1	179.8
37.5°	323.7	275.3	210.8	167.4	150.7
40°	305.1	253.6	186.0	140.1	124.6
42.5°	285.2	231.9	161.2	113.5	96.1
45°	264.8	208.3	137.7	87.4	69.4
47.5°	243.7	187.3	114.1	64.5	52.1
50°	222.6	164.9	91.8	47.7	43.4
52.5°	200.9	143.2	69.4	39.7	37.8
55°	179.2	122.8	50.2	34.1	32.2
57.5°	156.9	100.4	37.8	29.1	27.3
60°	132.7	80.6	29.8	24.2	22.3
62.5°	110.4	63.2	24.2	19.8	18.6
65°	88.7	45.3	19.2	16.1	14.9
67.5°	66.3	30.4	14.9	12.4	12.4
70°	45.3	19.8	11.2	9.9	9.9
72.5°	27.3	11.8	8.1	8.1	8.1
75°	11.2	7.4	6.2	6.2	6.2
77.5°	3.7	4.3	4.3	5.0	5.0
80°	2.5	2.5	3.1	3.7	3.7
82.5°	1.2	1.9	1.9	2.5	2.5
85°	0.6	0.6	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)