

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: P1061701

Luminaire Tested: S125RDR-S610D840-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D840-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

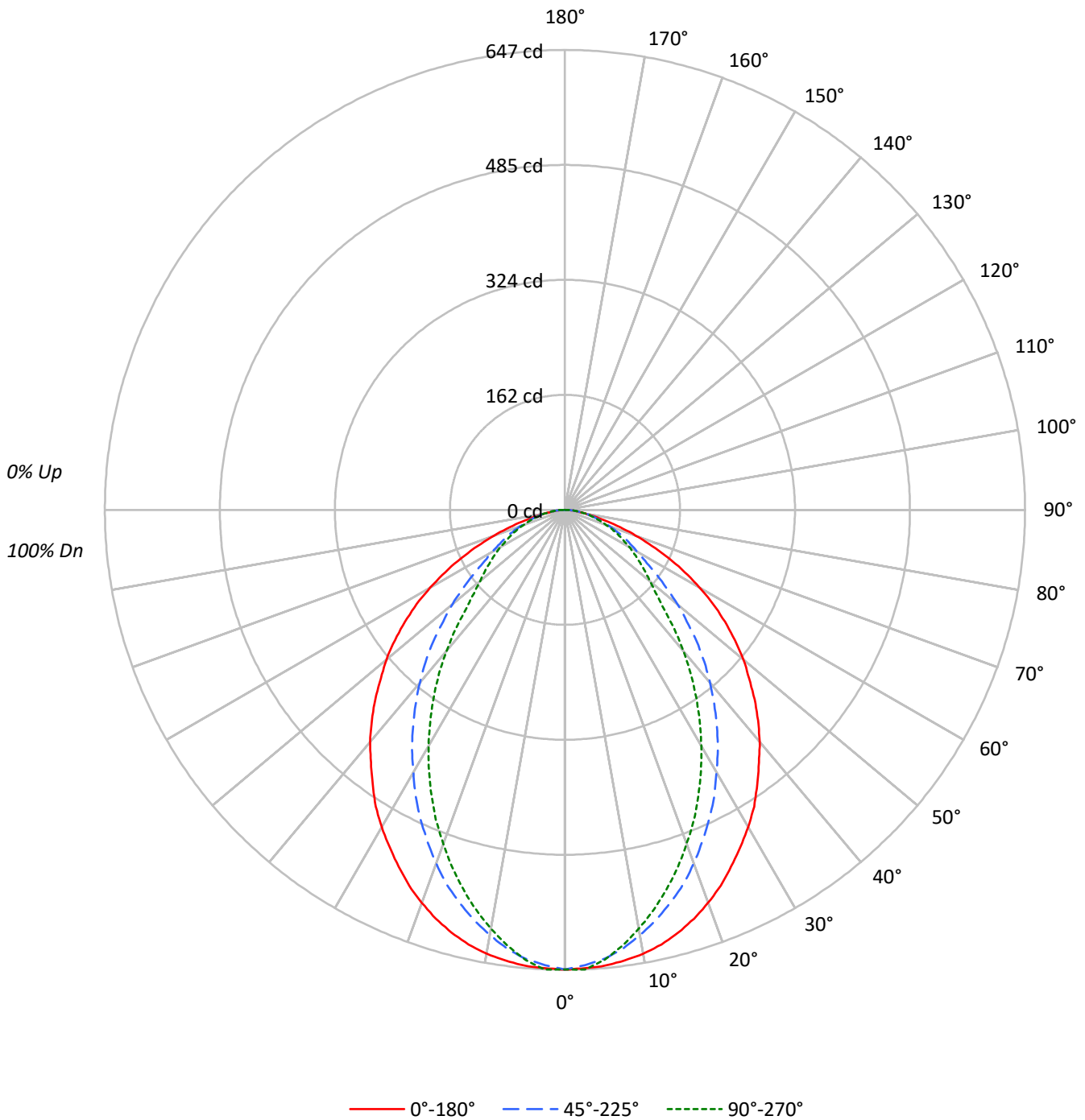
Lumens per Lamp: N/A
Luminaire Lumens: 1225.1 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89				87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77				75	
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67				65	
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59				57	
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52				50	
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47				45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42				40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38				36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35				33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32				30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4453	4453	4453
5°	4450	4383	4392
10°	4433	4247	4183
15°	4389	4079	3939
20°	4311	3880	3664
25°	4203	3649	3372
30°	4098	3388	3048
35°	3961	3128	2703
40°	3831	2853	2329
45°	3672	2550	1908
50°	3512	2211	1670
55°	3296	1846	1543
60°	3007	1615	1440
65°	2631	1476	1339
70°	2134	1329	1244
75°	1532	1213	1157
80°	1059	1086	1086
85°	774	940	995

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3672 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	4.9
10°-20°	162.6	13.3
20°-30°	224.8	18.3
30°-40°	239.4	19.5
40°-50°	210.3	17.2
50°-60°	159.5	13.0
60°-70°	103.6	8.5
70°-80°	51.3	4.2
80°-90°	13.4	1.1
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°	447.6	36.5
0°-40°	687.0	56.1
0°-60°	1056.8	86.3
0°-90°	1225.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	644	642	634	636	636	61
15°	616	602	572	559	553	173
25°	553	523	480	456	444	255
35°	471	428	372	338	322	295
45°	377	324	262	215	196	291
55°	275	220	154	133	128	245
65°	162	120	91	84	82	160
75°	58	51	46	44	44	64
85°	10	11	12	12	13	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	646.7	646.7	646.7	646.7	646.7
2.5°	645.3	646.7	641.1	646.0	647.4
5°	643.9	642.5	634.1	636.2	635.5
7.5°	639.7	636.9	622.8	621.4	618.6
10°	634.1	627.1	607.4	602.5	598.3
12.5°	626.4	615.1	591.2	581.4	576.5
15°	615.8	601.8	572.3	558.9	552.6
17.5°	603.2	583.5	552.6	534.4	527.3
20°	588.4	565.3	529.5	508.4	500.0
22.5°	572.3	544.9	504.9	482.4	473.3
25°	553.3	523.1	480.3	455.7	443.8
27.5°	534.4	500.7	454.3	426.9	414.3
30°	515.4	476.8	426.2	396.7	383.4
32.5°	495.0	452.2	400.3	367.9	352.5
35°	471.2	427.6	372.2	338.5	321.6
37.5°	448.0	401.7	344.8	306.9	290.7
40°	426.2	377.1	317.4	276.0	259.1
42.5°	401.7	351.1	290.0	246.5	227.5
45°	377.1	324.4	261.9	214.9	195.9
47.5°	351.1	299.1	232.4	186.1	173.4
50°	327.9	273.2	206.4	164.3	155.9
52.5°	301.2	247.9	179.8	147.5	141.8
55°	274.6	220.5	153.8	132.7	128.5
57.5°	247.2	195.9	133.4	120.1	115.9
60°	218.4	170.6	117.3	106.7	104.6
62.5°	189.6	144.7	103.2	95.5	92.7
65°	161.5	120.1	90.6	83.6	82.2
67.5°	132.7	97.6	77.9	73.0	72.3
70°	106.0	79.3	66.0	63.2	61.8
72.5°	81.5	63.2	55.5	53.4	52.7
75°	57.6	50.6	45.6	44.2	43.5
77.5°	38.6	38.6	36.5	35.1	35.8
80°	26.7	28.1	27.4	27.4	27.4
82.5°	17.6	19.0	19.7	19.7	19.7
85°	9.8	11.2	11.9	11.9	12.6
87.5°	3.5	4.2	4.9	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)