

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: P1061551

Luminaire Tested: S125RDR-S1270D927-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D927-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

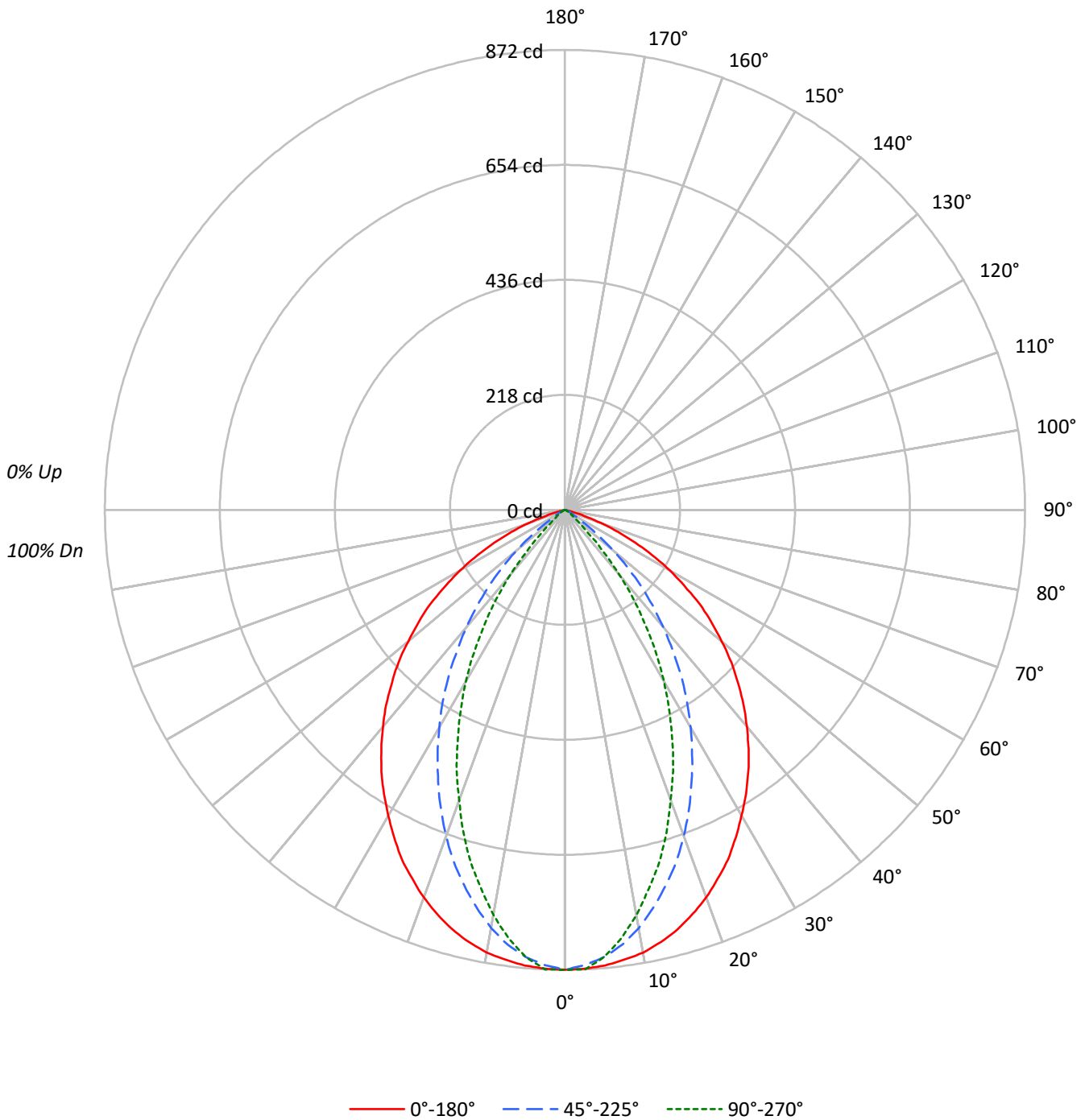
Lumens per Lamp: N/A
Luminaire Lumens: 1126.5 lumens
Efficiency: N/A
Efficacy: 27.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6004	6004	6004
5°	5995	5883	5883
10°	5960	5630	5453
15°	5871	5256	4928
20°	5731	4821	4290
25°	5558	4317	3653
30°	5323	3786	2981
35°	5095	3229	2233
40°	4818	2606	1447
45°	4514	1972	627
50°	4153	1256	235
55°	3742	552	166
60°	3169	238	112
65°	2398	150	57
70°	1460	70	24
75°	306	32	32
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4514 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	7.1
10°-20°	209.5	18.6
20°-30°	269.0	23.9
30°-40°	253.3	22.5
40°-50°	177.1	15.7
50°-60°	94.6	8.4
60°-70°	37.7	3.4
70°-80°	4.9	0.4
80°-90°	0.0	0.0
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°	558.9	49.6
0°-40°	812.2	72.1
0°-60°	1083.9	96.2
0°-90°	1126.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	867	865	851	854	851	82
15°	824	797	737	703	691	232
25°	732	667	568	506	481	336
35°	606	510	384	297	266	378
45°	464	347	202	98	64	358
55°	312	191	46	16	14	276
65°	147	59	9	5	4	146
75°	12	4	1	1	1	22
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	872.0	872.0	872.0	872.0	872.0
2.5°	870.8	872.0	863.9	870.8	872.0
5°	867.4	865.1	851.2	853.5	851.2
7.5°	860.5	854.7	831.7	823.6	819.0
10°	852.4	839.7	805.2	788.0	779.9
12.5°	839.7	821.3	773.0	746.6	735.1
15°	823.6	797.2	737.4	702.9	691.4
17.5°	804.1	769.6	700.6	658.0	640.7
20°	782.2	736.2	658.0	607.4	585.5
22.5°	756.9	704.0	614.3	557.9	536.1
25°	731.6	667.2	568.3	506.1	480.8
27.5°	700.6	629.2	522.3	455.5	427.9
30°	669.5	591.3	476.2	403.8	375.0
32.5°	638.4	551.0	430.2	349.7	320.9
35°	606.2	509.6	384.2	296.8	265.7
37.5°	571.7	468.2	334.7	246.2	214.0
40°	536.1	427.9	289.9	196.7	161.0
42.5°	501.5	387.7	245.0	148.4	109.3
45°	463.6	347.4	202.5	97.8	64.4
47.5°	427.9	308.3	158.7	56.4	33.4
50°	387.7	268.0	117.3	29.9	21.9
52.5°	349.7	228.9	78.2	19.6	17.3
55°	311.7	191.0	46.0	16.1	13.8
57.5°	268.0	154.1	25.3	12.7	10.4
60°	230.1	120.8	17.3	9.2	8.1
62.5°	186.4	88.6	12.7	6.9	5.8
65°	147.2	58.7	9.2	4.6	3.5
67.5°	109.3	34.5	5.8	2.3	2.3
70°	72.5	18.4	3.5	1.2	1.2
72.5°	38.0	8.1	2.3	1.2	1.2
75°	11.5	3.5	1.2	1.2	1.2
77.5°	0.0	1.2	0.0	0.0	1.2
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)