

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: P1061515

Luminaire Tested: S125RDR-S1270D830-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061515
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-S1270D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

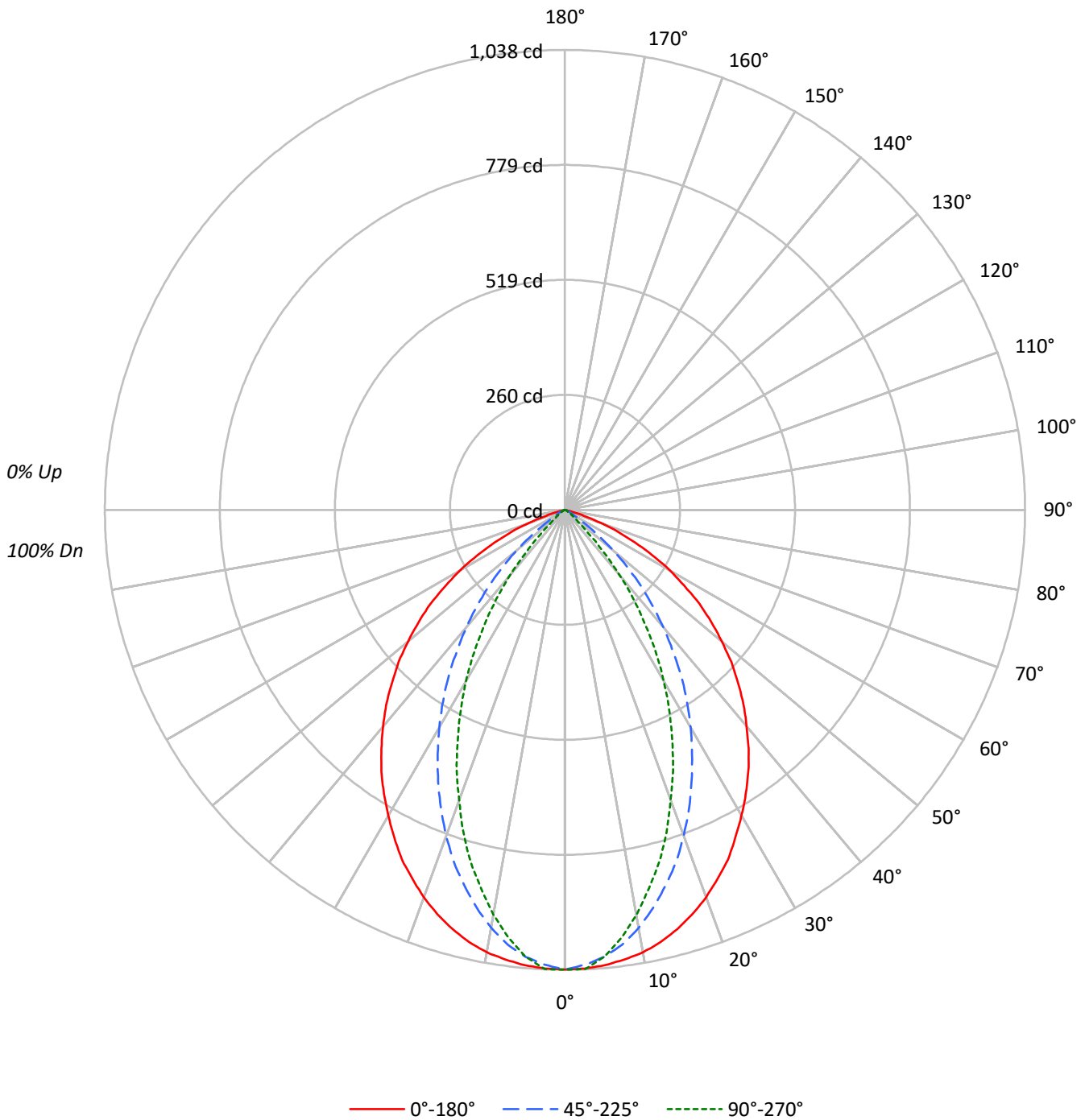
Lumens per Lamp: N/A
Luminaire Lumens: 1340.3 lumens
Efficiency: N/A
Efficacy: 32.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	7143	7143	7143
5°	7133	7000	7000
10°	7091	6699	6488
15°	6986	6254	5864
20°	6819	5736	5105
25°	6613	5136	4346
30°	6333	4505	3547
35°	6063	3842	2658
40°	5733	3100	1722
45°	5371	2346	746
50°	4940	1495	278
55°	4452	657	197
60°	3769	282	132
65°	2854	178	67
70°	1735	83	28
75°	364	37	37
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5371 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	7.1
10°-20°	249.3	18.6
20°-30°	320.1	23.9
30°-40°	301.3	22.5
40°-50°	210.7	15.7
50°-60°	112.5	8.4
60°-70°	44.9	3.3
70°-80°	5.8	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°	665.0	49.6
0°-40°	966.4	72.1
0°-60°	1289.6	96.2
0°-90°	1340.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1340.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1038	1038	1038	1038	1038	
5°	1032	1029	1013	1016	1013	98
15°	980	948	877	836	823	276
25°	870	794	676	602	572	400
35°	721	606	457	353	316	450
45°	552	413	241	116	77	425
55°	371	227	55	19	16	329
65°	175	70	11	6	4	174
75°	14	4	1	1	1	27
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°	1037.5	1037.5	1037.5	1037.5	1037.5
2.5°	1036.1	1037.5	1027.9	1036.1	1037.5
5°	1032.0	1029.2	1012.8	1015.6	1012.8
7.5°	1023.8	1016.9	989.6	980.0	974.5
10°	1014.2	999.1	958.1	937.5	928.0
12.5°	999.1	977.2	919.8	888.3	874.6
15°	980.0	948.5	877.3	836.3	822.6
17.5°	956.7	915.6	833.5	782.9	762.4
20°	930.7	876.0	782.9	722.7	696.7
22.5°	900.6	837.6	730.9	663.8	637.8
25°	870.5	793.8	676.1	602.2	572.1
27.5°	833.5	748.7	621.4	542.0	509.1
30°	796.6	703.5	566.6	480.4	446.2
32.5°	759.6	655.6	511.9	416.1	381.9
35°	721.3	606.3	457.1	353.1	316.2
37.5°	680.2	557.1	398.3	292.9	254.6
40°	637.8	509.1	344.9	234.0	191.6
42.5°	596.7	461.2	291.5	176.6	130.0
45°	551.6	413.3	240.9	116.3	76.6
47.5°	509.1	366.8	188.9	67.1	39.7
50°	461.2	318.9	139.6	35.6	26.0
52.5°	416.1	272.4	93.1	23.3	20.5
55°	370.9	227.2	54.7	19.2	16.4
57.5°	318.9	183.4	30.1	15.1	12.3
60°	273.7	143.7	20.5	10.9	9.6
62.5°	221.7	105.4	15.1	8.2	6.8
65°	175.2	69.8	10.9	5.5	4.1
67.5°	130.0	41.1	6.8	2.7	2.7
70°	86.2	21.9	4.1	1.4	1.4
72.5°	45.2	9.6	2.7	1.4	1.4
75°	13.7	4.1	1.4	1.4	1.4
77.5°	0.0	1.4	0.0	0.0	1.4
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)