

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: P1061572

Luminaire Tested: S125RDR-S1270D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061572
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-S1270D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

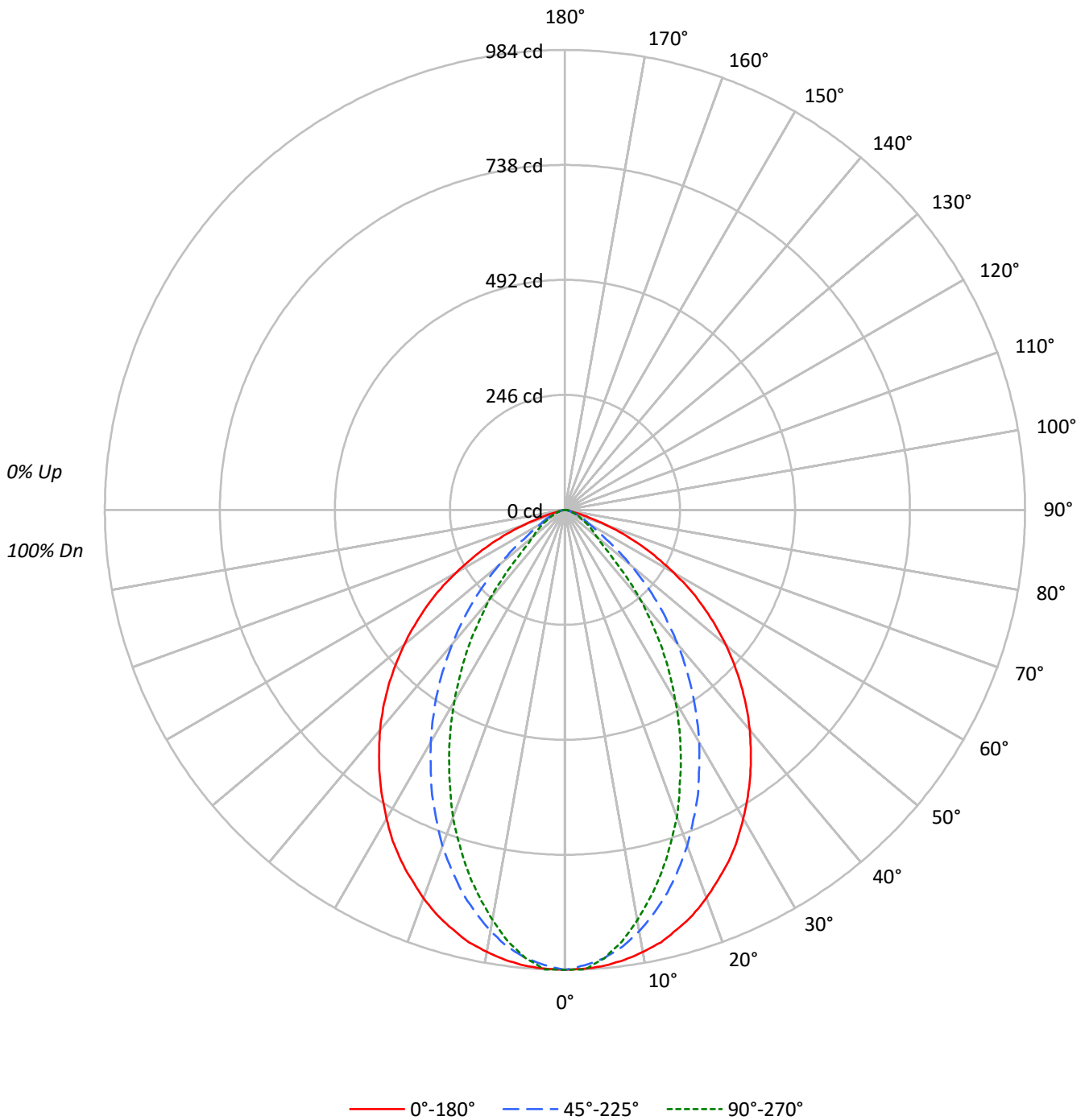
Lumens per Lamp: N/A
Luminaire Lumens: 1423.2 lumens
Efficiency: N/A
Efficacy: 34.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6775	6775	6775
5°	6766	6654	6654
10°	6714	6399	6233
15°	6622	6043	5713
20°	6477	5607	5130
25°	6298	5111	4455
30°	6064	4563	3757
35°	5811	3993	3048
40°	5529	3371	2259
45°	5199	2703	1363
50°	4808	1983	937
55°	4338	1216	780
60°	3685	826	620
65°	2913	632	489
70°	1838	453	403
75°	599	333	333
80°	198	250	297
85°	103	197	197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5199 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	6.4
10°-20°	240.4	16.9
20°-30°	316.1	22.2
30°-40°	310.6	21.8
40°-50°	235.0	16.5
50°-60°	142.5	10.0
60°-70°	67.3	4.7
70°-80°	17.6	1.2
80°-90°	2.7	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°	647.5	45.5
0°-40°	958.1	67.3
0°-60°	1335.7	93.9
0°-90°	1423.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1423.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	979	976	963	964	963	93
15°	929	904	848	815	802	262
25°	829	766	673	610	586	381
35°	691	599	475	391	363	432
45°	534	420	278	176	140	411
55°	361	248	101	69	65	322
65°	179	91	39	32	30	176
75°	22	15	12	12	12	35
85°	1	1	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.0	984.0	984.0	984.0	984.0
2.5°	982.8	982.8	975.3	984.0	984.0
5°	979.0	976.5	962.8	964.0	962.8
7.5°	971.5	966.5	942.8	936.5	931.5
10°	960.3	950.3	915.3	900.3	891.5
12.5°	947.8	930.3	882.7	861.5	847.7
15°	929.0	904.0	847.7	815.2	801.5
17.5°	909.0	872.7	806.5	767.7	750.2
20°	884.0	841.5	765.2	717.7	700.2
22.5°	856.5	806.5	717.7	665.2	641.4
25°	829.0	766.5	672.7	610.2	586.4
27.5°	797.7	726.5	621.4	556.4	530.1
30°	762.7	686.4	573.9	506.4	472.6
32.5°	727.7	645.2	523.9	450.1	416.4
35°	691.4	598.9	475.1	391.4	362.6
37.5°	652.7	555.2	425.1	337.6	303.8
40°	615.2	511.4	375.1	282.6	251.3
42.5°	575.2	467.6	325.1	228.8	193.8
45°	533.9	420.1	277.6	176.3	140.0
47.5°	491.4	377.6	230.1	130.0	105.0
50°	448.9	332.6	185.1	96.3	87.5
52.5°	405.1	288.8	140.0	80.0	76.3
55°	361.4	247.6	101.3	68.8	65.0
57.5°	316.3	202.6	76.3	58.8	55.0
60°	267.6	162.5	60.0	48.8	45.0
62.5°	222.6	127.5	48.8	40.0	37.5
65°	178.8	91.3	38.8	32.5	30.0
67.5°	133.8	61.3	30.0	25.0	25.0
70°	91.3	40.0	22.5	20.0	20.0
72.5°	55.0	23.8	16.3	16.3	16.3
75°	22.5	15.0	12.5	12.5	12.5
77.5°	7.5	8.8	8.8	10.0	10.0
80°	5.0	5.0	6.3	7.5	7.5
82.5°	2.5	3.8	3.8	5.0	5.0
85°	1.3	1.3	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)