

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: P1061537

Luminaire Tested: S125RDR-S1270D840-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D840-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

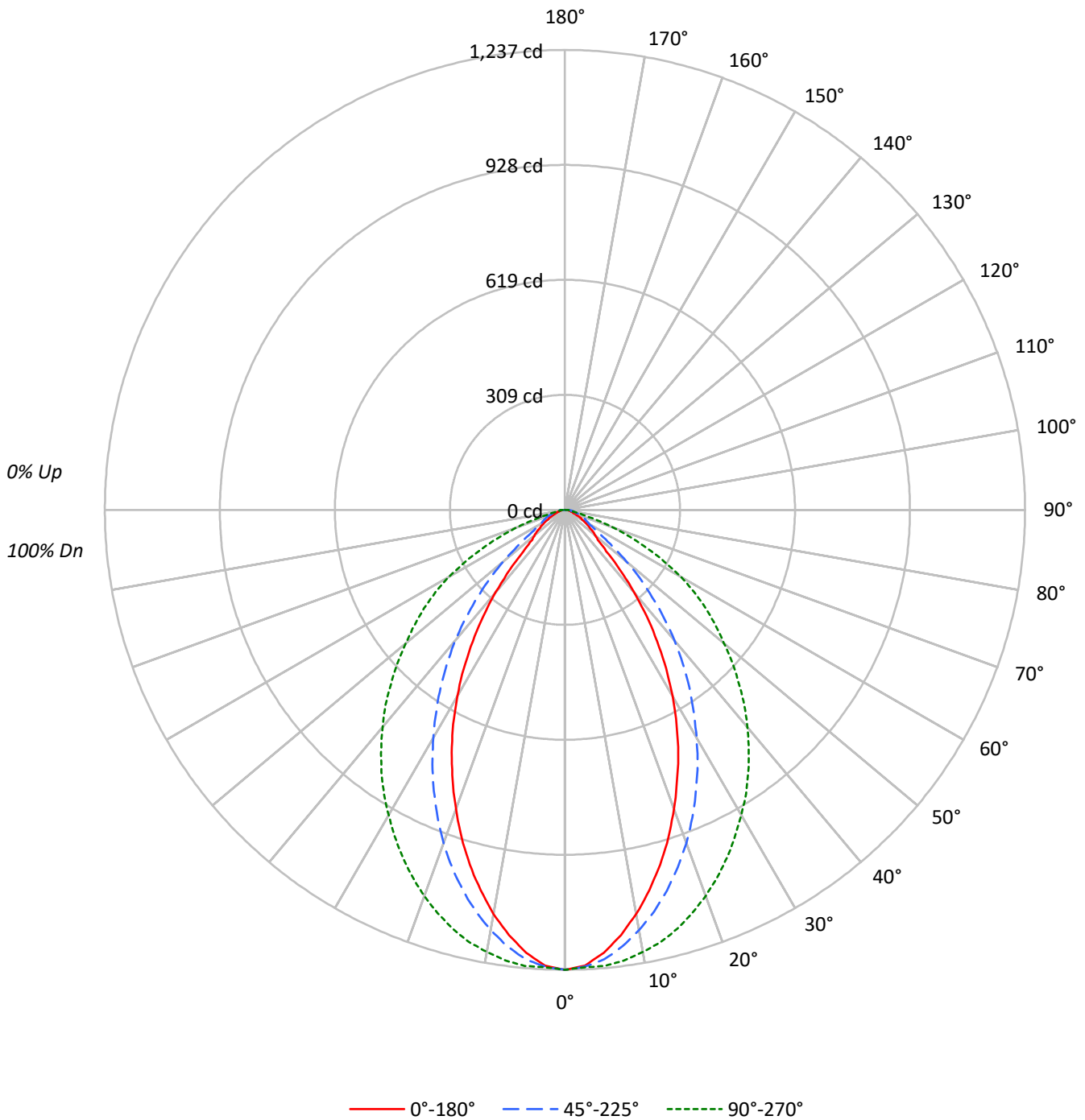
Lumens per Lamp: N/A
Luminaire Lumens: 1786.3 lumens
Efficiency: N/A
Efficacy: 42.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70				
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63				
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51				
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39				
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8518	8518	8518
5°	8266	8389	8510
10°	7716	8023	8444
15°	7040	7553	8316
20°	6279	6989	8097
25°	5474	6333	7838
30°	4597	5624	7537
35°	3627	4897	7229
40°	2598	4116	6859
45°	1529	3230	6430
50°	1132	2327	5974
55°	951	1409	5549
60°	768	1030	4950
65°	598	981	3969
70°	501	916	2688
75°	468	819	1171
80°	464	813	757
85°	577	1043	814

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6430 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	6.4
10°-20°	299.5	16.8
20°-30°	391.4	21.9
30°-40°	381.0	21.3
40°-50°	284.7	15.9
50°-60°	176.6	9.9
60°-70°	92.7	5.2
70°-80°	33.8	1.9
80°-90°	12.8	0.7
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°	804.8	45.1
0°-40°	1185.8	66.4
0°-60°	1647.0	92.2
0°-90°	1786.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1786.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1196	1212	1214	1221	1231	111
15°	988	1017	1060	1124	1167	276
25°	721	757	834	947	1032	329
35°	432	478	583	738	860	269
45°	157	206	332	518	660	132
55°	79	84	117	305	462	71
65°	37	40	60	129	244	38
75°	18	20	31	34	44	19
85°	7	13	13	13	10	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1237.1	1237.1	1237.1	1237.1	1237.1
2.5°	1226.9	1237.1	1229.8	1229.8	1231.3
5°	1196.0	1212.2	1213.7	1221.0	1231.3
7.5°	1153.5	1172.6	1184.3	1206.3	1222.5
10°	1103.6	1125.6	1147.6	1184.3	1207.8
12.5°	1047.8	1074.2	1106.5	1156.4	1190.2
15°	987.7	1017.0	1059.6	1124.1	1166.7
17.5°	924.5	955.4	1008.2	1086.0	1137.3
20°	857.0	890.8	953.9	1042.0	1105.1
22.5°	788.1	826.2	895.2	995.0	1069.8
25°	720.6	757.2	833.6	946.6	1031.7
27.5°	650.1	688.3	771.9	896.7	990.6
30°	578.2	619.3	707.4	845.3	948.0
32.5°	506.3	548.9	644.2	792.5	905.5
35°	431.5	478.4	582.6	738.2	860.0
37.5°	361.0	410.9	519.5	682.4	811.5
40°	289.1	340.5	457.9	628.1	763.1
42.5°	218.7	271.5	394.8	572.3	714.7
45°	157.0	205.5	331.7	518.0	660.4
47.5°	120.3	148.2	273.0	462.3	612.0
50°	105.7	114.5	217.2	408.0	557.7
52.5°	92.5	98.3	161.4	355.1	510.7
55°	79.2	83.6	117.4	305.2	462.3
57.5°	67.5	71.9	89.5	259.8	412.4
60°	55.8	60.2	74.8	214.3	359.5
62.5°	47.0	48.4	67.5	171.7	300.8
65°	36.7	39.6	60.2	129.1	243.6
67.5°	30.8	32.3	52.8	92.5	187.8
70°	24.9	26.4	45.5	64.6	133.5
72.5°	22.0	22.0	38.2	47.0	85.1
75°	17.6	20.5	30.8	33.8	44.0
77.5°	14.7	20.5	26.4	24.9	23.5
80°	11.7	19.1	20.5	20.5	19.1
82.5°	10.3	16.1	17.6	16.1	14.7
85°	7.3	13.2	13.2	13.2	10.3
87.5°	5.9	11.7	10.3	10.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)