

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: P1061477

Luminaire Tested: S125RDR-S1090D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D927-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

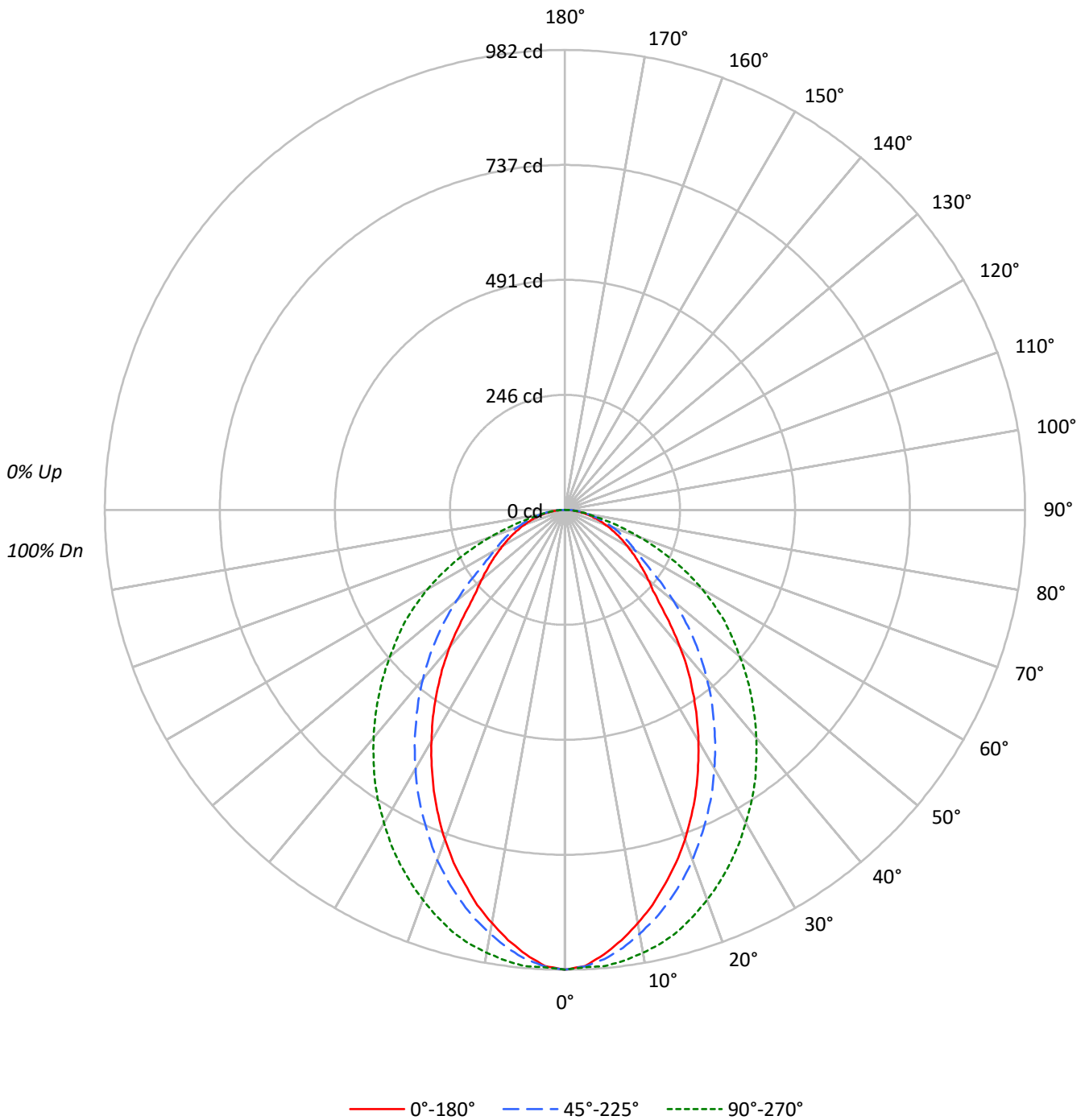
Lumens per Lamp: N/A
Luminaire Lumens: 1840.2 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	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°	6759	6759	6759
5°	6588	6656	6757
10°	6266	6424	6712
15°	5893	6152	6641
20°	5489	5835	6495
25°	5029	5461	6333
30°	4530	5068	6136
35°	4006	4657	5943
40°	3438	4240	5712
45°	2807	3772	5471
50°	2489	3235	5221
55°	2284	2684	5003
60°	2107	2377	4659
65°	1965	2284	4154
70°	1836	2172	3396
75°	1695	2035	2503
80°	1594	1907	1828
85°	1469	1856	1548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5471 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	4.9
10°-20°	244.7	13.3
20°-30°	336.3	18.3
30°-40°	356.4	19.4
40°-50°	311.1	16.9
50°-60°	236.4	12.8
60°-70°	158.4	8.6
70°-80°	81.7	4.4
80°-90°	24.5	1.3
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°	671.8	36.5
0°-40°	1028.3	55.9
0°-60°	1575.8	85.6
0°-90°	1840.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1840.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	953	963	963	970	978	89
15°	827	842	863	901	932	232
25°	662	683	719	779	834	303
35°	477	504	554	632	707	297
45°	288	317	387	480	562	228
55°	190	196	224	328	417	171
65°	121	124	140	187	255	120
75°	64	68	76	81	94	68
85°	19	24	24	22	20	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	981.7	981.7	981.7	981.7	981.7
2.5°	974.8	981.7	975.8	975.8	977.7
5°	953.2	963.0	963.0	969.9	977.7
7.5°	926.7	937.5	943.4	959.1	970.9
10°	896.3	908.1	918.9	942.4	960.1
12.5°	864.0	876.7	893.4	923.8	948.3
15°	826.7	842.4	863.0	901.2	931.6
17.5°	789.4	805.1	830.6	875.7	910.1
20°	749.2	765.9	796.3	845.3	886.5
22.5°	706.1	724.7	757.1	813.0	861.0
25°	662.0	682.6	718.8	778.7	833.6
27.5°	615.9	640.4	679.6	743.4	804.2
30°	569.8	594.3	637.4	707.1	771.8
32.5°	523.7	550.2	597.2	670.8	740.4
35°	476.6	504.1	554.1	632.5	707.1
37.5°	430.5	458.0	513.9	595.3	670.8
40°	382.5	410.9	471.7	557.0	635.5
42.5°	333.4	363.8	429.5	517.8	599.2
45°	288.3	316.8	387.4	479.6	561.9
47.5°	255.0	273.6	345.2	440.3	525.6
50°	232.4	242.2	302.0	402.1	487.4
52.5°	209.9	217.7	261.8	362.9	451.1
55°	190.3	196.1	223.6	328.5	416.8
57.5°	170.6	176.5	194.2	294.2	376.6
60°	153.0	157.9	172.6	257.9	338.3
62.5°	136.3	140.2	155.9	223.6	297.1
65°	120.6	123.6	140.2	187.3	255.0
67.5°	104.9	107.9	124.5	153.0	209.9
70°	91.2	92.2	107.9	124.5	168.7
72.5°	77.5	78.5	91.2	101.0	129.4
75°	63.7	67.7	76.5	81.4	94.1
77.5°	52.0	56.9	61.8	63.7	63.7
80°	40.2	46.1	48.1	48.1	46.1
82.5°	29.4	34.3	35.3	33.3	31.4
85°	18.6	23.5	23.5	21.6	19.6
87.5°	8.8	12.7	12.7	11.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)