

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: P1061504

Luminaire Tested: S125RDR-S1090D940-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061504
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-S1090D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

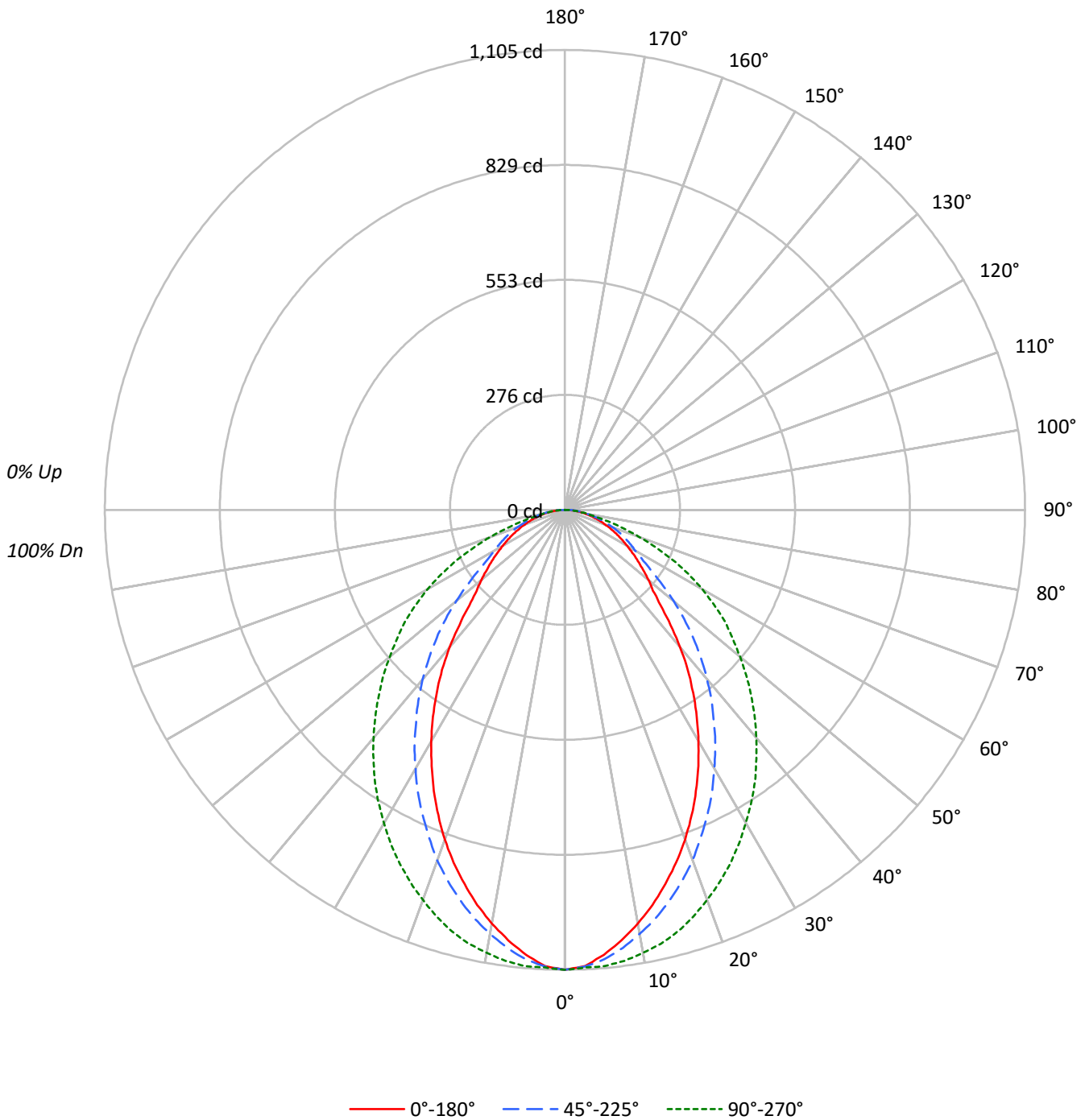
Lumens per Lamp: N/A
Luminaire Lumens: 2071.5 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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										
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	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°	7608	7608	7608
5°	7416	7492	7607
10°	7054	7231	7556
15°	6633	6924	7475
20°	6180	6568	7312
25°	5661	6148	7128
30°	5099	5704	6907
35°	4509	5242	6690
40°	3869	4773	6429
45°	3160	4245	6159
50°	2802	3642	5876
55°	2571	3021	5632
60°	2371	2676	5244
65°	2212	2572	4676
70°	2067	2444	3823
75°	1910	2290	2820
80°	1796	2145	2058
85°	1659	2093	1746

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6159 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	4.9
10°-20°	275.4	13.3
20°-30°	378.6	18.3
30°-40°	401.2	19.4
40°-50°	350.2	16.9
50°-60°	266.1	12.8
60°-70°	178.3	8.6
70°-80°	91.9	4.4
80°-90°	27.6	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°	756.3	36.5
0°-40°	1157.5	55.9
0°-60°	1773.7	85.6
0°-90°	2071.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2071.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1073	1084	1084	1092	1101	100
15°	931	948	971	1014	1049	261
25°	745	768	809	876	938	342
35°	536	567	624	712	796	335
45°	324	357	436	540	632	256
55°	214	221	252	370	469	192
65°	136	139	158	211	287	135
75°	72	76	86	92	106	77
85°	21	26	26	24	22	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.0	1105.0	1105.0	1105.0	1105.0
2.5°	1097.3	1105.0	1098.4	1098.4	1100.6
5°	1073.0	1084.0	1084.0	1091.7	1100.6
7.5°	1043.2	1055.3	1061.9	1079.6	1092.9
10°	1009.0	1022.2	1034.3	1060.8	1080.7
12.5°	972.5	986.9	1005.6	1039.9	1067.5
15°	930.6	948.2	971.4	1014.5	1048.7
17.5°	888.6	906.3	935.0	985.8	1024.4
20°	843.4	862.1	896.4	951.6	997.9
22.5°	794.8	815.8	852.2	915.1	969.2
25°	745.1	768.3	809.2	876.5	938.3
27.5°	693.2	720.8	765.0	836.7	905.2
30°	641.4	669.0	717.5	795.9	868.8
32.5°	589.5	619.3	672.3	755.1	833.4
35°	536.5	567.4	623.7	712.0	795.9
37.5°	484.6	515.5	578.4	670.1	755.1
40°	430.5	462.5	531.0	627.0	715.3
42.5°	375.3	409.5	483.5	582.9	674.5
45°	324.5	356.6	436.0	539.8	632.5
47.5°	287.0	308.0	388.6	495.6	591.7
50°	261.6	272.7	340.0	452.6	548.6
52.5°	236.2	245.1	294.7	408.4	507.8
55°	214.2	220.8	251.7	369.8	469.2
57.5°	192.1	198.7	218.6	331.2	423.9
60°	172.2	177.7	194.3	290.3	380.8
62.5°	153.4	157.9	175.5	251.7	334.5
65°	135.8	139.1	157.9	210.8	287.0
67.5°	118.1	121.4	140.2	172.2	236.2
70°	102.7	103.8	121.4	140.2	189.9
72.5°	87.2	88.3	102.7	113.7	145.7
75°	71.8	76.2	86.1	91.6	106.0
77.5°	58.5	64.0	69.5	71.8	71.8
80°	45.3	51.9	54.1	54.1	51.9
82.5°	33.1	38.6	39.7	37.5	35.3
85°	21.0	26.5	26.5	24.3	22.1
87.5°	9.9	14.4	14.4	13.2	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)