

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: P1061587

Luminaire Tested: S125RDR-S1270D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061587
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-S1270D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

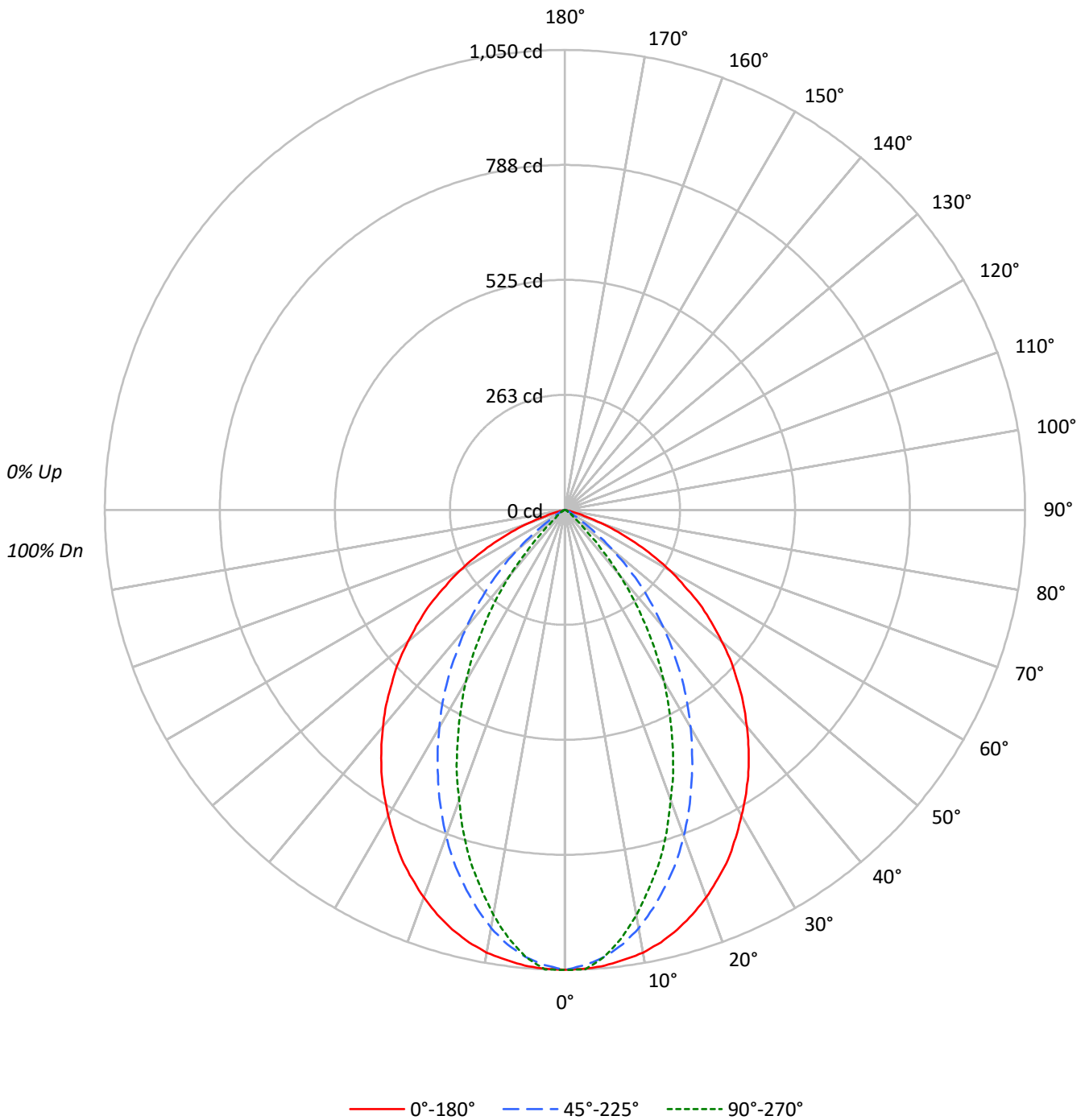
Lumens per Lamp: N/A
Luminaire Lumens: 1356.6 lumens
Efficiency: N/A
Efficacy: 32.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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°	7230	7230	7230
5°	7219	7085	7085
10°	7177	6780	6566
15°	7070	6330	5935
20°	6902	5806	5166
25°	6694	5199	4399
30°	6410	4560	3590
35°	6137	3889	2690
40°	5803	3138	1743
45°	5436	2374	756
50°	5001	1514	282
55°	4506	665	199
60°	3816	286	134
65°	2889	181	68
70°	1757	85	28
75°	370	37	37
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5436 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	7.1
10°-20°	252.3	18.6
20°-30°	324.0	23.9
30°-40°	305.0	22.5
40°-50°	213.2	15.7
50°-60°	113.9	8.4
60°-70°	45.4	3.3
70°-80°	5.9	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°	673.1	49.6
0°-40°	978.1	72.1
0°-60°	1305.3	96.2
0°-90°	1356.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1356.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1044	1042	1025	1028	1025	99
15°	992	960	888	846	833	279
25°	881	804	684	610	579	404
35°	730	614	463	357	320	456
45°	558	418	244	118	78	431
55°	375	230	55	19	17	333
65°	177	71	11	6	4	176
75°	14	4	1	1	1	27
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.1	1050.1	1050.1	1050.1	1050.1
2.5°	1048.7	1050.1	1040.4	1048.7	1050.1
5°	1044.5	1041.8	1025.1	1027.9	1025.1
7.5°	1036.2	1029.3	1001.6	991.9	986.3
10°	1026.5	1011.3	969.7	948.9	939.2
12.5°	1011.3	989.1	930.9	899.1	885.2
15°	991.9	960.0	888.0	846.4	832.6
17.5°	968.3	926.8	843.7	792.4	771.6
20°	942.0	886.6	792.4	731.4	705.1
22.5°	911.5	847.8	739.8	671.9	645.6
25°	881.1	803.5	684.3	609.5	579.1
27.5°	843.7	757.8	628.9	548.6	515.3
30°	806.3	712.1	573.5	486.2	451.6
32.5°	768.8	663.6	518.1	421.1	386.5
35°	730.1	613.7	462.7	357.4	320.0
37.5°	688.5	563.8	403.1	296.5	257.7
40°	645.6	515.3	349.1	236.9	193.9
42.5°	604.0	466.9	295.1	178.7	131.6
45°	558.3	418.4	243.8	117.8	77.6
47.5°	515.3	371.3	191.2	67.9	40.2
50°	466.9	322.8	141.3	36.0	26.3
52.5°	421.1	275.7	94.2	23.6	20.8
55°	375.4	230.0	55.4	19.4	16.6
57.5°	322.8	185.6	30.5	15.2	12.5
60°	277.1	145.5	20.8	11.1	9.7
62.5°	224.4	106.7	15.2	8.3	6.9
65°	177.3	70.7	11.1	5.5	4.2
67.5°	131.6	41.6	6.9	2.8	2.8
70°	87.3	22.2	4.2	1.4	1.4
72.5°	45.7	9.7	2.8	1.4	1.4
75°	13.9	4.2	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)