

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: P1175415

Luminaire Tested: S125RDR-H375D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H375D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

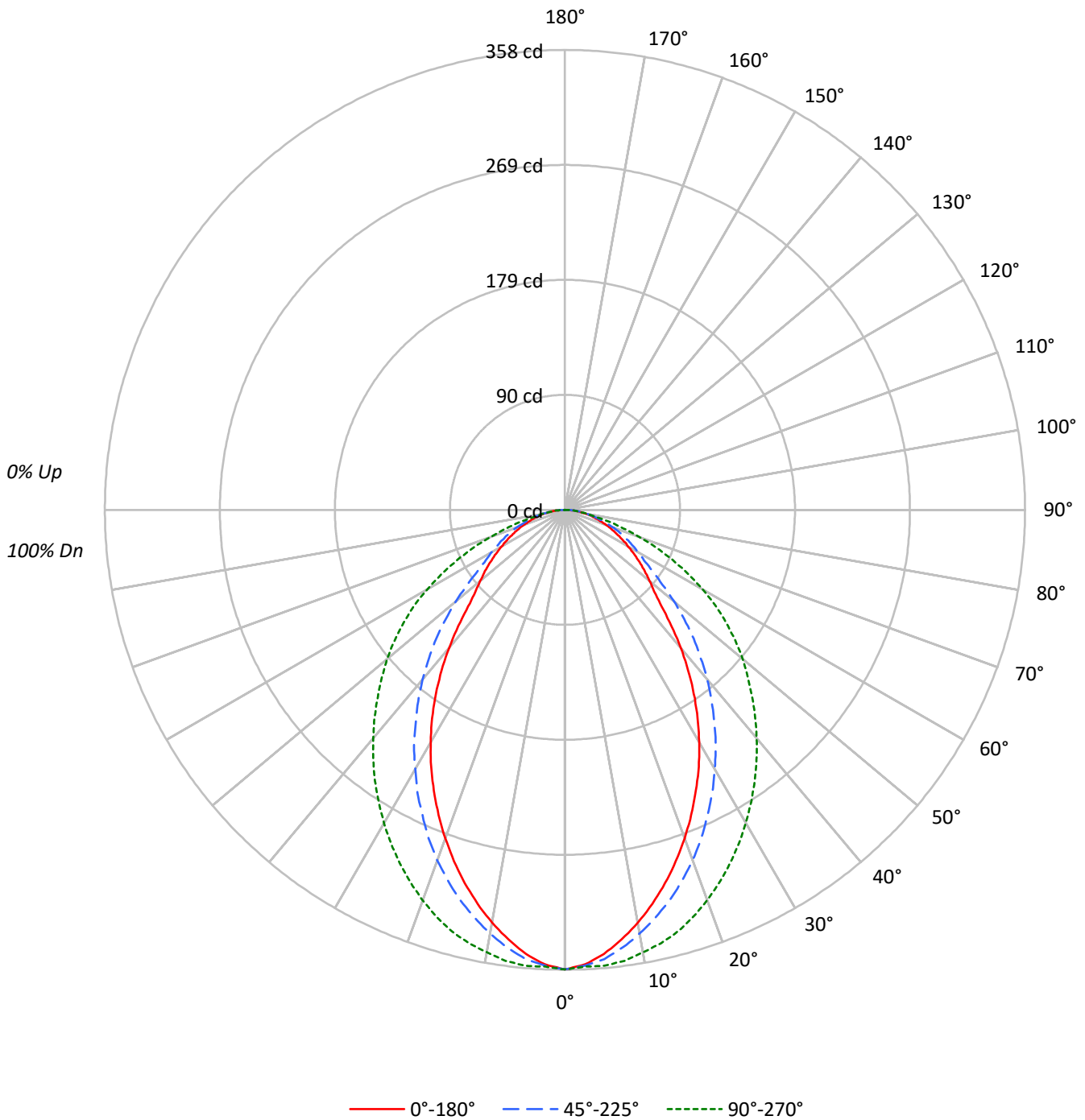
Lumens per Lamp: N/A
Luminaire Lumens: 673.9 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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

TEST NUMBER: P1175415

CATALOG NUMBER: S125RDR-H375D930-X4F0-XX-UDD-WVL-W

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			86	
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74			74	
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64			64	
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56			56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			50	
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44			44	
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40			40	
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36			36	
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33			33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30			30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2463	2463	2463
5°	2399	2426	2462
10°	2282	2341	2446
15°	2145	2243	2422
20°	1994	2127	2370
25°	1832	1993	2306
30°	1661	1852	2238
35°	1470	1702	2164
40°	1261	1548	2085
45°	1035	1378	2005
50°	920	1184	1936
55°	849	992	1837
60°	782	903	1702
65°	727	850	1504
70°	678	795	1228
75°	638	734	920
80°	603	674	662
85°	553	671	553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2005 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	4.9
10°-20°	89.3	13.2
20°-30°	122.8	18.2
30°-40°	130.2	19.3
40°-50°	114.0	16.9
50°-60°	87.5	13.0
60°-70°	58.3	8.6
70°-80°	29.9	4.4
80°-90°	8.9	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°	245.2	36.4
0°-40°	375.4	55.7
0°-60°	576.9	85.6
0°-90°	673.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	673.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	358	358	358	358	358	
5°	347	352	351	353	356	32
15°	301	308	315	329	340	84
25°	241	249	262	284	304	111
35°	175	183	202	232	258	109
45°	106	115	142	177	206	84
55°	71	72	83	123	153	63
65°	45	45	52	69	92	44
75°	24	26	28	29	35	25
85°	7	8	8	8	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	357.7	357.7	357.7	357.7	357.7
2.5°	354.3	358.0	355.2	355.6	355.9
5°	347.1	351.6	351.0	353.4	356.2
7.5°	337.3	342.2	343.7	349.8	354.0
10°	326.4	331.9	334.9	344.0	349.8
12.5°	314.0	320.3	325.2	337.0	345.5
15°	300.9	307.9	314.6	329.4	339.8
17.5°	286.9	293.9	302.7	319.7	332.2
20°	272.1	279.6	290.3	308.5	323.4
22.5°	256.9	264.8	276.9	297.0	314.0
25°	241.1	249.3	262.3	284.5	303.6
27.5°	225.6	233.2	248.4	272.1	293.0
30°	208.9	216.8	232.9	259.0	281.5
32.5°	192.2	200.1	218.6	245.9	269.6
35°	174.9	183.1	202.5	232.3	257.5
37.5°	157.6	166.1	187.6	218.3	245.0
40°	140.3	149.4	172.2	204.3	232.0
42.5°	122.7	132.4	156.4	190.7	219.2
45°	106.3	115.1	141.5	176.7	205.9
47.5°	94.4	99.6	125.7	162.4	193.1
50°	85.9	88.4	110.5	148.8	180.7
52.5°	78.3	79.9	95.6	136.0	167.0
55°	70.7	72.3	82.6	122.7	153.0
57.5°	63.5	64.4	72.9	109.3	139.1
60°	56.8	57.4	65.6	95.9	123.6
62.5°	50.7	51.0	58.6	82.3	108.1
65°	44.6	44.9	52.2	68.6	92.3
67.5°	39.2	39.2	46.2	56.2	77.1
70°	33.7	33.7	39.5	45.5	61.0
72.5°	28.8	29.5	33.4	36.7	47.7
75°	24.0	25.5	27.6	29.1	34.6
77.5°	19.4	21.3	22.2	22.8	23.1
80°	15.2	16.4	17.0	17.3	16.7
82.5°	11.2	12.1	12.4	12.4	11.5
85°	7.0	7.9	8.5	8.2	7.0
87.5°	3.3	4.6	4.9	4.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)