

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: P1175418

Luminaire Tested: S125RDR-H375D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175418
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-H375D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

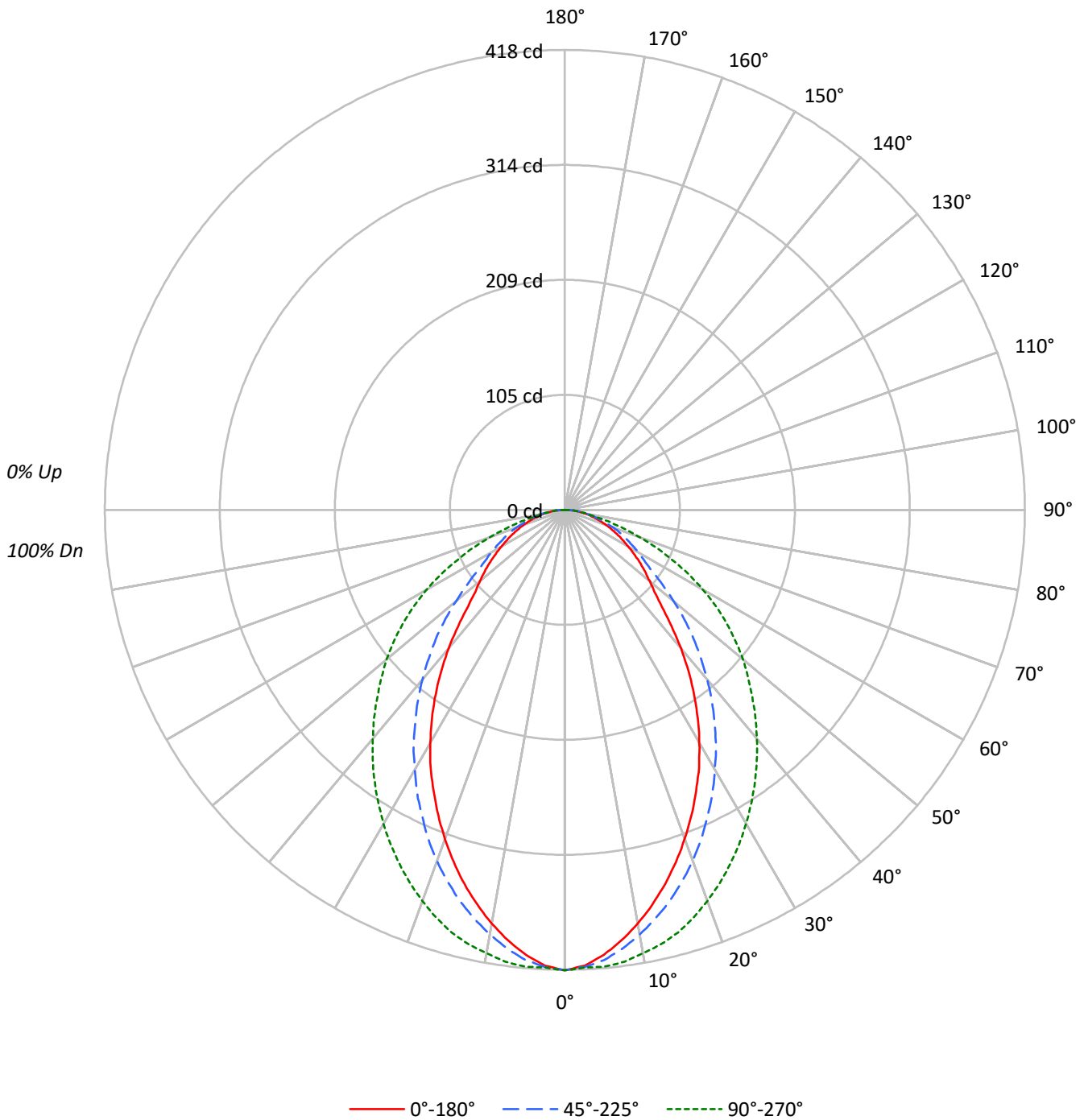
Lumens per Lamp: N/A
Luminaire Lumens: 788.5 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	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	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2881	2881	2881
5°	2807	2839	2881
10°	2670	2740	2862
15°	2510	2624	2834
20°	2332	2489	2773
25°	2143	2332	2699
30°	1943	2166	2619
35°	1720	1992	2533
40°	1475	1810	2439
45°	1211	1612	2346
50°	1077	1385	2264
55°	994	1160	2150
60°	914	1056	1991
65°	850	995	1760
70°	793	930	1437
75°	748	859	1077
80°	706	789	773
85°	648	782	648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2346 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	4.9
10°-20°	104.4	13.2
20°-30°	143.7	18.2
30°-40°	152.4	19.3
40°-50°	133.4	16.9
50°-60°	102.3	13.0
60°-70°	68.2	8.6
70°-80°	35.0	4.4
80°-90°	10.4	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°	286.9	36.4
0°-40°	439.3	55.7
0°-60°	675.0	85.6
0°-90°	788.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	788.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	406	411	411	414	417	38
15°	352	360	368	386	398	99
25°	282	292	307	333	355	130
35°	205	214	237	272	301	128
45°	124	135	166	207	241	98
55°	83	85	97	144	179	74
65°	52	53	61	80	108	52
75°	28	30	32	34	40	30
85°	8	9	10	10	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	418.5	418.5	418.5	418.5	418.5
2.5°	414.6	418.9	415.7	416.0	416.4
5°	406.1	411.4	410.7	413.6	416.8
7.5°	394.7	400.4	402.2	409.3	414.3
10°	381.9	388.3	391.9	402.5	409.3
12.5°	367.4	374.8	380.5	394.4	404.3
15°	352.1	360.3	368.1	385.5	397.6
17.5°	335.7	343.9	354.2	374.1	388.7
20°	318.3	327.2	339.7	361.0	378.4
22.5°	300.6	309.8	324.0	347.5	367.4
25°	282.1	291.7	307.0	332.9	355.3
27.5°	264.0	272.9	290.6	318.3	342.9
30°	244.4	253.7	272.5	303.1	329.4
32.5°	224.9	234.1	255.8	287.8	315.5
35°	204.6	214.2	237.0	271.8	301.3
37.5°	184.4	194.3	219.6	255.5	286.7
40°	164.1	174.8	201.4	239.1	271.4
42.5°	143.5	154.9	183.0	223.1	256.5
45°	124.4	134.7	165.6	206.8	240.9
47.5°	110.5	116.5	147.1	190.1	226.0
50°	100.5	103.4	129.3	174.1	211.4
52.5°	91.7	93.4	111.9	159.2	195.4
55°	82.8	84.6	96.6	143.5	179.1
57.5°	74.3	75.3	85.3	127.9	162.7
60°	66.4	67.1	76.7	112.3	144.6
62.5°	59.3	59.7	68.6	96.3	126.5
65°	52.2	52.6	61.1	80.3	108.0
67.5°	45.8	45.8	54.0	65.7	90.2
70°	39.4	39.4	46.2	53.3	71.4
72.5°	33.8	34.5	39.1	43.0	55.8
75°	28.1	29.8	32.3	34.1	40.5
77.5°	22.7	24.9	25.9	26.6	27.0
80°	17.8	19.2	19.9	20.3	19.5
82.5°	13.1	14.2	14.6	14.6	13.5
85°	8.2	9.2	9.9	9.6	8.2
87.5°	3.9	5.3	5.7	5.0	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)