

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: P1175369

Luminaire Tested: S125RDR-S375D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175369
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-S375D927-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

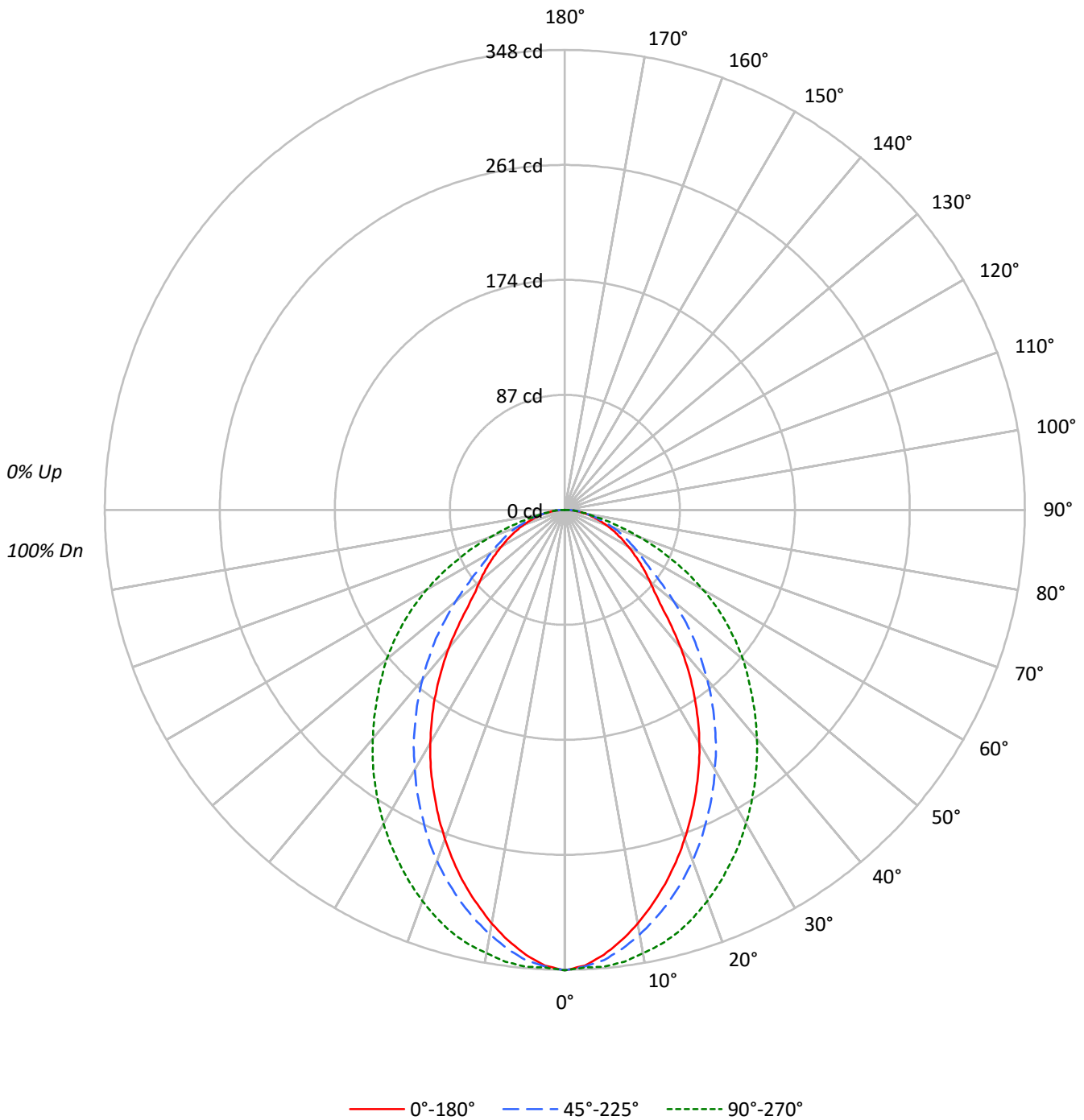
Lumens per Lamp: N/A
Luminaire Lumens: 656.3 lumens
Efficiency: N/A
Efficacy: 52.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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				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°	2399	2399	2399
5°	2336	2363	2398
10°	2223	2281	2382
15°	2089	2184	2359
20°	1942	2071	2308
25°	1784	1941	2246
30°	1618	1803	2180
35°	1432	1658	2108
40°	1228	1507	2031
45°	1008	1342	1952
50°	897	1154	1885
55°	827	965	1790
60°	762	880	1658
65°	709	829	1465
70°	660	773	1196
75°	622	716	897
80°	587	658	646
85°	537	656	537

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1952 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	4.9
10°-20°	86.9	13.2
20°-30°	119.6	18.2
30°-40°	126.9	19.3
40°-50°	111.0	16.9
50°-60°	85.2	13.0
60°-70°	56.8	8.6
70°-80°	29.1	4.4
80°-90°	8.6	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°	238.8	36.4
0°-40°	365.6	55.7
0°-60°	561.9	85.6
0°-90°	656.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	656.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	348	348	348	348	348	
5°	338	342	342	344	347	32
15°	293	300	306	321	331	82
25°	235	243	256	277	296	108
35°	170	178	197	226	251	106
45°	104	112	138	172	200	82
55°	69	70	80	120	149	62
65°	44	44	51	67	90	43
75°	23	25	27	28	34	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°	348.4	348.4	348.4	348.4	348.4
2.5°	345.1	348.7	346.0	346.3	346.6
5°	338.0	342.5	341.9	344.3	346.9
7.5°	328.6	333.3	334.8	340.7	344.8
10°	317.9	323.3	326.2	335.1	340.7
12.5°	305.8	312.0	316.7	328.3	336.6
15°	293.1	299.9	306.4	320.9	330.9
17.5°	279.5	286.3	294.9	311.4	323.5
20°	265.0	272.4	282.7	300.5	315.0
22.5°	250.2	257.9	269.7	289.2	305.8
25°	234.8	242.8	255.5	277.1	295.7
27.5°	219.7	227.1	241.9	265.0	285.4
30°	203.5	211.2	226.8	252.3	274.2
32.5°	187.2	194.9	212.9	239.6	262.6
35°	170.4	178.3	197.3	226.2	250.8
37.5°	153.5	161.8	182.8	212.6	238.7
40°	136.6	145.5	167.7	199.0	226.0
42.5°	119.5	128.9	152.3	185.7	213.5
45°	103.5	112.1	137.8	172.1	200.5
47.5°	92.0	97.0	122.4	158.2	188.1
50°	83.7	86.1	107.7	144.9	176.0
52.5°	76.3	77.8	93.2	132.5	162.7
55°	68.9	70.4	80.4	119.5	149.1
57.5°	61.8	62.7	71.0	106.5	135.5
60°	55.3	55.9	63.9	93.5	120.4
62.5°	49.4	49.7	57.1	80.1	105.3
65°	43.5	43.8	50.9	66.8	89.9
67.5°	38.2	38.2	45.0	54.7	75.1
70°	32.8	32.8	38.4	44.4	59.4
72.5°	28.1	28.7	32.5	35.8	46.4
75°	23.4	24.8	26.9	28.4	33.7
77.5°	18.9	20.7	21.6	22.2	22.5
80°	14.8	16.0	16.6	16.9	16.3
82.5°	10.9	11.8	12.1	12.1	11.2
85°	6.8	7.7	8.3	8.0	6.8
87.5°	3.3	4.4	4.7	4.1	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)