

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: P1175413

Luminaire Tested: S125RDR-H375D850-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175413
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-H375D850-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, 80 CRI LEDS
Ballast/Driver: -

Summary

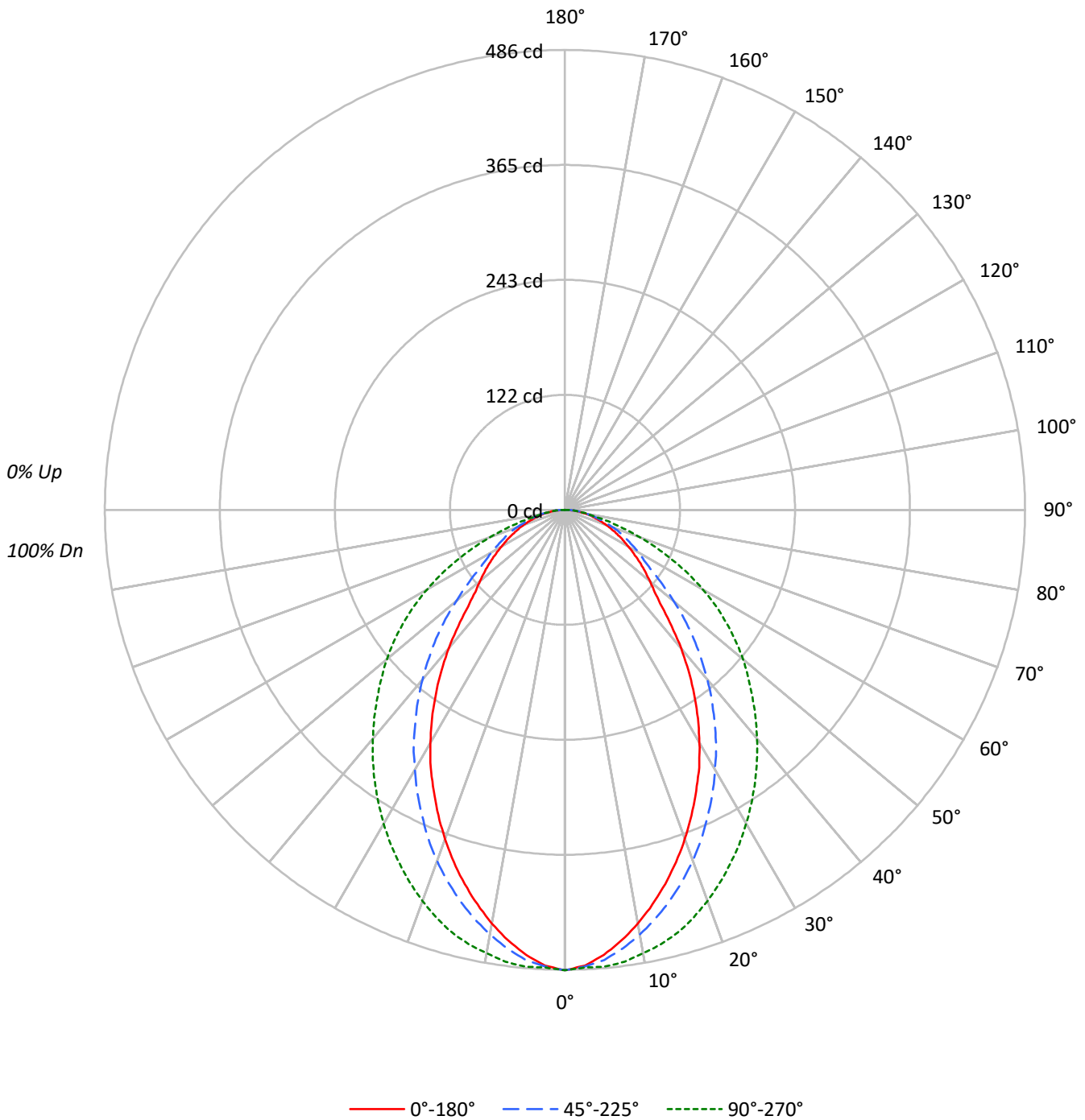
Lumens per Lamp: N/A
Luminaire Lumens: 916.6 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	3350	3350	3350
5°	3263	3300	3349
10°	3104	3185	3327
15°	2918	3050	3295
20°	2712	2893	3223
25°	2491	2711	3138
30°	2260	2519	3044
35°	2000	2316	2944
40°	1715	2105	2836
45°	1408	1874	2726
50°	1252	1610	2632
55°	1155	1348	2499
60°	1063	1228	2315
65°	989	1157	2046
70°	922	1081	1671
75°	867	1000	1253
80°	821	916	900
85°	750	916	750

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2726 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	4.9
10°-20°	121.4	13.2
20°-30°	167.0	18.2
30°-40°	177.2	19.3
40°-50°	155.1	16.9
50°-60°	119.0	13.0
60°-70°	79.2	8.6
70°-80°	40.6	4.4
80°-90°	12.1	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°	333.5	36.4
0°-40°	510.6	55.7
0°-60°	784.7	85.6
0°-90°	916.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	916.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	486	486	486	486	486	
5°	472	478	477	481	484	44
15°	409	419	428	448	462	115
25°	328	339	357	387	413	151
35°	238	249	276	316	350	148
45°	145	156	192	240	280	114
55°	96	98	112	167	208	86
65°	61	61	71	93	126	60
75°	33	35	38	40	47	35
85°	10	11	12	11	10	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	486.5	486.5	486.5	486.5	486.5
2.5°	482.0	486.9	483.2	483.6	484.0
5°	472.1	478.3	477.4	480.7	484.5
7.5°	458.9	465.5	467.5	475.8	481.6
10°	444.0	451.4	455.6	467.9	475.8
12.5°	427.1	435.7	442.3	458.4	470.0
15°	409.3	418.8	427.9	448.1	462.2
17.5°	390.3	399.8	411.8	434.9	451.8
20°	370.1	380.4	394.8	419.6	439.9
22.5°	349.4	360.1	376.7	403.9	427.1
25°	327.9	339.1	356.8	387.0	413.0
27.5°	306.9	317.2	337.8	370.1	398.6
30°	284.2	294.9	316.8	352.3	382.9
32.5°	261.4	272.2	297.4	334.5	366.8
35°	237.9	249.0	275.5	316.0	350.2
37.5°	214.4	225.9	255.2	297.0	333.3
40°	190.8	203.2	234.2	278.0	315.5
42.5°	166.9	180.1	212.7	259.4	298.2
45°	144.6	156.5	192.5	240.4	280.0
47.5°	128.4	135.5	171.0	221.0	262.7
50°	116.9	120.2	150.3	202.4	245.7
52.5°	106.6	108.6	130.1	185.0	227.2
55°	96.2	98.3	112.3	166.9	208.2
57.5°	86.3	87.6	99.1	148.7	189.2
60°	77.2	78.1	89.2	130.5	168.1
62.5°	69.0	69.4	79.7	111.9	147.0
65°	60.7	61.1	71.0	93.3	125.6
67.5°	53.3	53.3	62.8	76.4	104.9
70°	45.8	45.8	53.7	62.0	83.0
72.5°	39.2	40.1	45.4	50.0	64.8
75°	32.6	34.7	37.6	39.6	47.1
77.5°	26.4	28.9	30.1	31.0	31.4
80°	20.7	22.3	23.1	23.5	22.7
82.5°	15.3	16.5	16.9	16.9	15.7
85°	9.5	10.7	11.6	11.2	9.5
87.5°	4.5	6.2	6.6	5.8	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)