

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: P1175416

Luminaire Tested: S125RDR-H375D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175416
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-H375D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

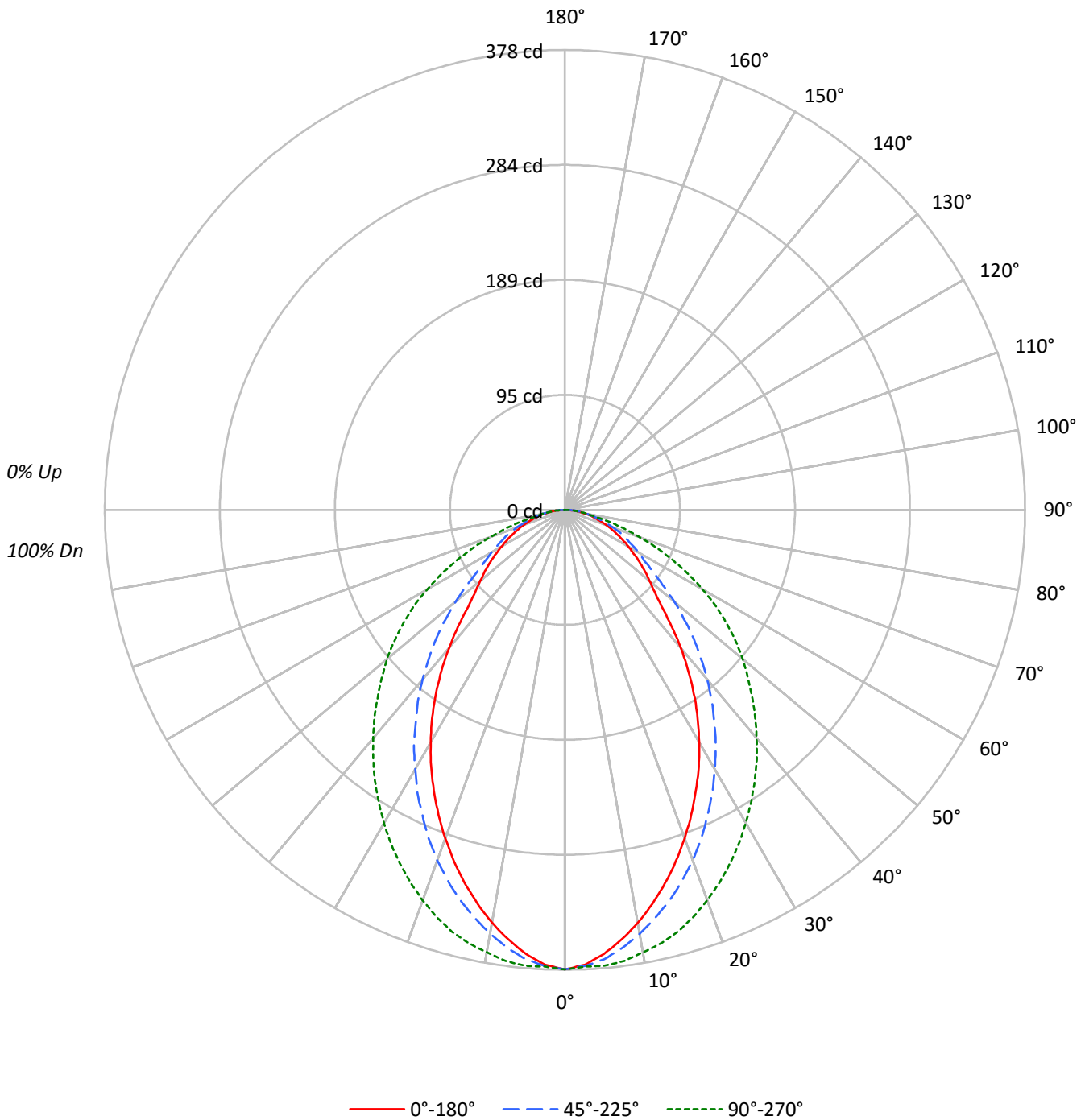
Lumens per Lamp: N/A
Luminaire Lumens: 711.6 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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°	2601	2601	2601
5°	2533	2562	2599
10°	2410	2473	2583
15°	2265	2368	2558
20°	2105	2246	2502
25°	1934	2104	2436
30°	1754	1955	2363
35°	1552	1798	2285
40°	1331	1634	2202
45°	1093	1455	2117
50°	972	1250	2044
55°	897	1047	1940
60°	826	954	1797
65°	767	899	1588
70°	717	839	1298
75°	673	777	974
80°	634	714	698
85°	585	711	585

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2117 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	4.9
10°-20°	94.3	13.2
20°-30°	129.7	18.2
30°-40°	137.5	19.3
40°-50°	120.4	16.9
50°-60°	92.4	13.0
60°-70°	61.5	8.6
70°-80°	31.5	4.4
80°-90°	9.4	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°	258.9	36.4
0°-40°	396.4	55.7
0°-60°	609.2	85.6
0°-90°	711.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	711.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	378	378	378	378	378	
5°	366	371	371	373	376	34
15°	318	325	332	348	359	89
25°	255	263	277	300	321	117
35°	185	193	214	245	272	115
45°	112	122	149	187	217	89
55°	75	76	87	130	162	67
65°	47	48	55	72	98	47
75°	25	27	29	31	37	27
85°	7	8	9	9	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	377.7	377.7	377.7	377.7	377.7
2.5°	374.2	378.0	375.2	375.5	375.8
5°	366.5	371.3	370.7	373.2	376.1
7.5°	356.2	361.4	363.0	369.4	373.9
10°	344.7	350.5	353.7	363.3	369.4
12.5°	331.6	338.3	343.4	355.9	364.9
15°	317.8	325.1	332.2	347.9	358.8
17.5°	303.0	310.4	319.7	337.6	350.8
20°	287.3	295.3	306.5	325.8	341.5
22.5°	271.3	279.6	292.4	313.6	331.6
25°	254.6	263.3	277.0	300.5	320.7
27.5°	238.2	246.3	262.3	287.3	309.4
30°	220.6	228.9	245.9	273.5	297.2
32.5°	203.0	211.3	230.9	259.7	284.7
35°	184.7	193.4	213.9	245.3	271.9
37.5°	166.4	175.4	198.2	230.5	258.8
40°	148.1	157.8	181.8	215.8	245.0
42.5°	129.5	139.8	165.1	201.4	231.5
45°	112.2	121.5	149.4	186.6	217.4
47.5°	99.7	105.2	132.7	171.5	203.9
50°	90.7	93.3	116.7	157.1	190.8
52.5°	82.7	84.3	101.0	143.7	176.4
55°	74.7	76.3	87.2	129.5	161.6
57.5°	67.0	68.0	77.0	115.4	146.9
60°	60.0	60.6	69.3	101.3	130.5
62.5°	53.5	53.9	61.9	86.9	114.2
65°	47.1	47.5	55.2	72.5	97.5
67.5°	41.4	41.4	48.7	59.3	81.4
70°	35.6	35.6	41.7	48.1	64.5
72.5°	30.5	31.1	35.3	38.8	50.3
75°	25.3	26.9	29.2	30.8	36.6
77.5°	20.5	22.4	23.4	24.0	24.4
80°	16.0	17.3	18.0	18.3	17.6
82.5°	11.9	12.8	13.1	13.1	12.2
85°	7.4	8.3	9.0	8.7	7.4
87.5°	3.5	4.8	5.1	4.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)