

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: P1061661

Luminaire Tested: S125RDR-S375D940-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D940-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

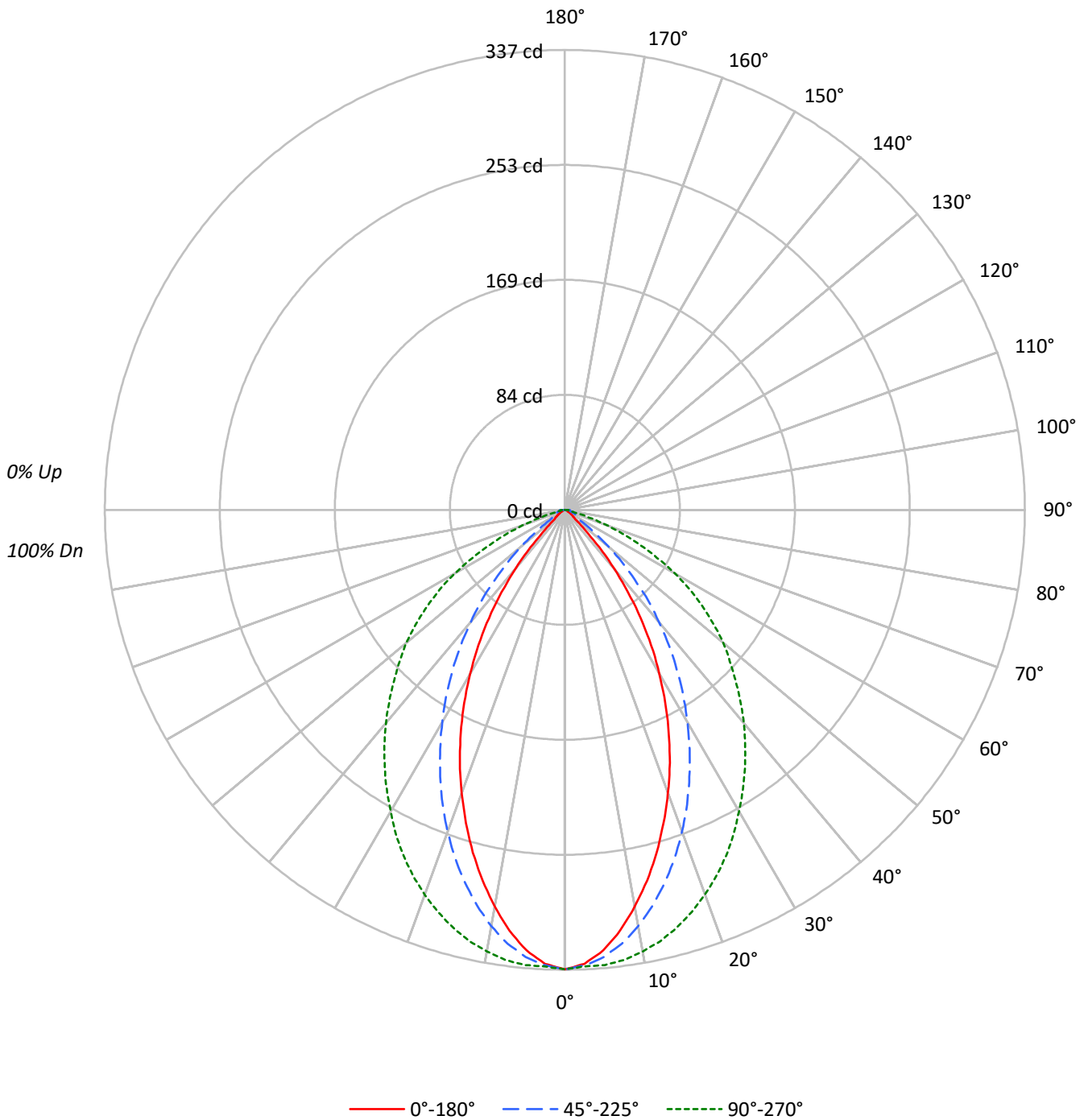
Lumens per Lamp: N/A
Luminaire Lumens: 435.6 lumens
Efficiency: N/A
Efficacy: 34.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2318	2318	2318
5°	2239	2273	2314
10°	2064	2166	2297
15°	1853	2016	2259
20°	1617	1839	2198
25°	1370	1640	2123
30°	1100	1428	2028
35°	814	1204	1934
40°	504	962	1833
45°	197	703	1723
50°	92	441	1623
55°	67	188	1473
60°	47	134	1278
65°	31	140	994
70°	30	129	626
75°	40	130	200
80°	59	147	135
85°	87	292	205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1723 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	7.1
10°-20°	80.0	18.4
20°-30°	101.9	23.4
30°-40°	94.8	21.8
40°-50°	65.3	15.0
50°-60°	37.0	8.5
60°-70°	17.5	4.0
70°-80°	5.5	1.3
80°-90°	2.8	0.7
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°	212.8	48.8
0°-40°	307.6	70.6
0°-60°	409.9	94.1
0°-90°	435.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	435.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	337	337	337	337	337	
5°	324	328	329	332	335	30
15°	260	269	283	304	317	72
25°	180	192	216	252	280	82
35°	97	110	143	192	230	60
45°	20	32	72	131	177	19
55°	6	6	16	75	123	5
65°	2	2	9	27	61	2
75°	2	3	5	5	8	2
85°	1	3	4	3	3	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	336.7	336.7	336.7	336.7	336.7
2.5°	332.9	336.3	334.1	334.4	334.8
5°	324.0	328.5	328.8	331.8	334.8
7.5°	310.9	316.5	320.6	327.7	332.6
10°	295.2	301.9	309.8	321.4	328.5
12.5°	278.3	286.2	297.0	313.5	323.6
15°	260.0	268.6	282.8	304.1	316.9
17.5°	240.5	250.3	267.5	292.9	309.0
20°	220.7	231.2	251.0	280.2	300.0
22.5°	200.9	211.7	233.8	266.4	290.3
25°	180.3	191.9	215.9	252.1	279.5
27.5°	159.4	171.3	197.9	237.6	267.9
30°	138.4	151.1	179.6	222.6	255.1
32.5°	117.8	130.6	161.6	207.6	242.8
35°	96.9	110.4	143.3	192.3	230.1
37.5°	75.9	90.5	125.3	176.6	217.0
40°	56.1	70.0	107.0	161.2	203.9
42.5°	37.4	50.9	90.5	145.9	190.4
45°	20.2	32.2	72.2	130.6	176.9
47.5°	10.8	17.2	56.5	115.6	163.9
50°	8.6	9.7	41.2	101.8	151.5
52.5°	7.1	7.9	26.9	88.7	137.3
55°	5.6	6.4	15.7	75.2	122.7
57.5°	4.5	5.2	10.1	62.5	108.5
60°	3.4	4.1	9.7	50.1	92.8
62.5°	2.6	3.0	9.0	38.5	76.3
65°	1.9	2.2	8.6	26.9	61.0
67.5°	1.5	1.9	7.9	17.2	45.6
70°	1.5	1.5	6.4	11.2	31.1
72.5°	1.5	2.6	5.6	7.5	18.7
75°	1.5	3.4	4.9	5.2	7.5
77.5°	1.5	3.7	4.1	4.1	4.1
80°	1.5	3.4	3.7	3.7	3.4
82.5°	1.5	3.0	3.4	3.7	3.0
85°	1.1	3.0	3.7	3.4	2.6
87.5°	1.1	3.0	3.4	3.0	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)