

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061662

Luminaire Tested: S125RDRP-S375D940-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D940-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

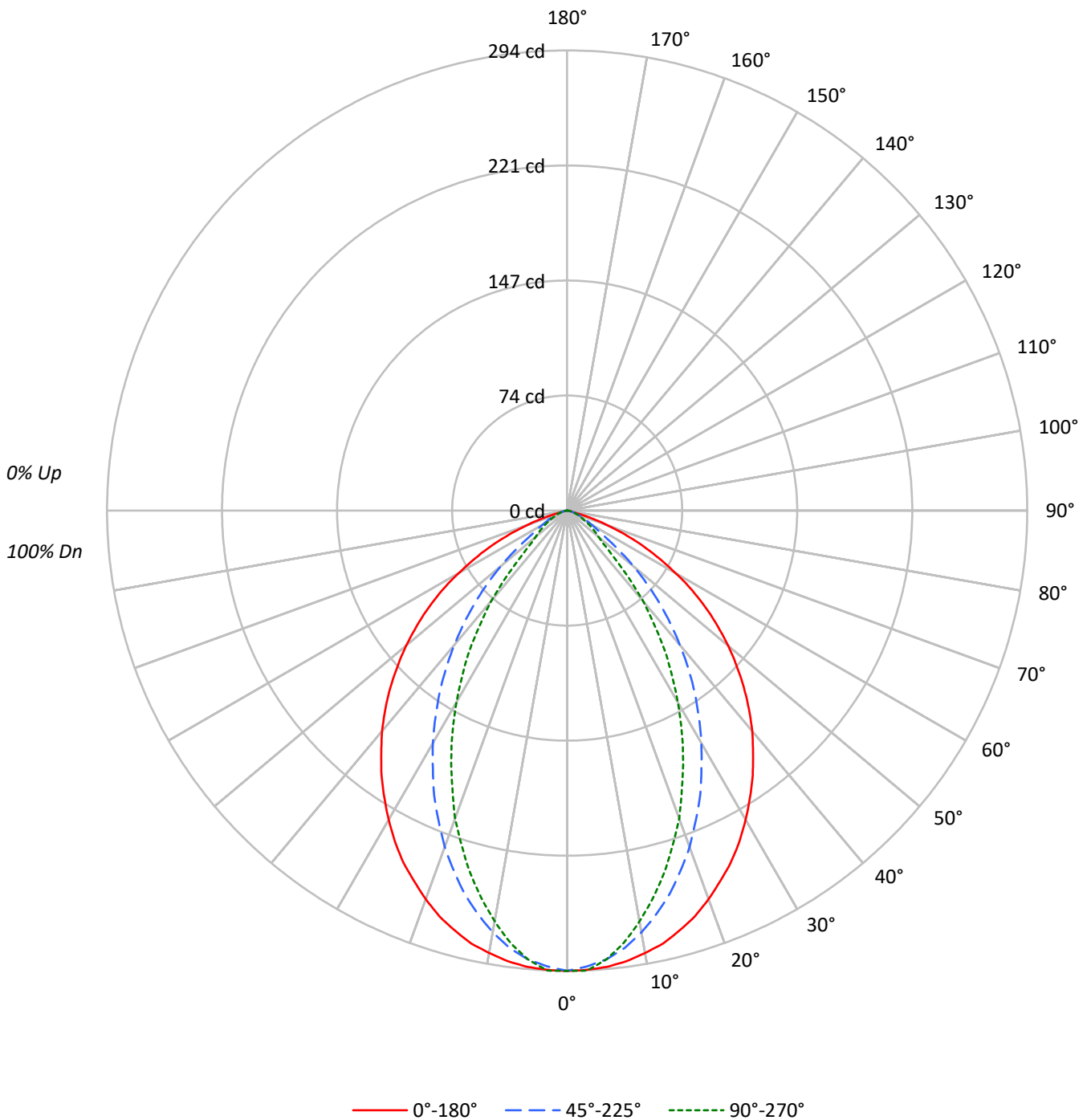
Lumens per Lamp: N/A
Luminaire Lumens: 425.4 lumens
Efficiency: N/A
Efficacy: 34.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (A_{in}): 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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2025	2025	2025
5°	2022	1989	1989
10°	2007	1913	1863
15°	1979	1806	1708
20°	1936	1676	1534
25°	1883	1528	1332
30°	1813	1363	1123
35°	1737	1194	911
40°	1653	1008	675
45°	1554	808	408
50°	1437	592	281
55°	1296	364	233
60°	1102	246	186
65°	870	189	147
70°	550	135	121
75°	178	98	98
80°	59	75	87
85°	32	55	55

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1554 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	6.4
10°-20°	71.8	16.9
20°-30°	94.5	22.2
30°-40°	92.9	21.8
40°-50°	70.3	16.5
50°-60°	42.6	10.0
60°-70°	20.1	4.7
70°-80°	5.2	1.2
80°-90°	0.8	0.2
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°	193.5	45.5
0°-40°	286.4	67.3
0°-60°	399.2	93.9
0°-90°	425.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	425.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	294	294	294	294	294	
5°	293	292	288	288	288	28
15°	278	270	253	244	240	78
25°	248	229	201	182	175	114
35°	207	179	142	117	108	129
45°	160	126	83	53	42	123
55°	108	74	30	21	19	96
65°	53	27	12	10	9	53
75°	7	4	4	4	4	10
85°	0	0	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	294.1	294.1	294.1	294.1	294.1
2.5°	293.7	293.7	291.5	294.1	294.1
5°	292.6	291.9	287.8	288.1	287.8
7.5°	290.4	288.9	281.8	279.9	278.4
10°	287.0	284.0	273.6	269.1	266.5
12.5°	283.3	278.1	263.9	257.5	253.4
15°	277.7	270.2	253.4	243.7	239.6
17.5°	271.7	260.9	241.1	229.5	224.2
20°	264.2	251.5	228.7	214.5	209.3
22.5°	256.0	241.1	214.5	198.8	191.7
25°	247.8	229.1	201.1	182.4	175.3
27.5°	238.4	217.1	185.7	166.3	158.5
30°	228.0	205.2	171.5	151.4	141.3
32.5°	217.5	192.8	156.6	134.5	124.5
35°	206.7	179.0	142.0	117.0	108.4
37.5°	195.1	165.9	127.1	100.9	90.8
40°	183.9	152.9	112.1	84.5	75.1
42.5°	171.9	139.8	97.2	68.4	57.9
45°	159.6	125.6	83.0	52.7	41.9
47.5°	146.9	112.9	68.8	38.9	31.4
50°	134.2	99.4	55.3	28.8	26.2
52.5°	121.1	86.3	41.9	23.9	22.8
55°	108.0	74.0	30.3	20.6	19.4
57.5°	94.6	60.5	22.8	17.6	16.4
60°	80.0	48.6	17.9	14.6	13.5
62.5°	66.5	38.1	14.6	12.0	11.2
65°	53.4	27.3	11.6	9.7	9.0
67.5°	40.0	18.3	9.0	7.5	7.5
70°	27.3	12.0	6.7	6.0	6.0
72.5°	16.4	7.1	4.9	4.9	4.9
75°	6.7	4.5	3.7	3.7	3.7
77.5°	2.2	2.6	2.6	3.0	3.0
80°	1.5	1.5	1.9	2.2	2.2
82.5°	0.7	1.1	1.1	1.5	1.5
85°	0.4	0.4	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.78	13.11	12.14	13.42	13.74	2.44	3.78	2.81	4.09	4.40
	3H	12.49	13.66	12.86	13.99	14.36	3.23	4.41	3.61	4.74	5.10
	4H	12.50	13.60	12.90	13.95	14.33	3.48	4.57	3.88	4.92	5.31
	6H	12.43	13.44	12.85	13.81	14.20	3.65	4.66	4.07	5.03	5.42
	8H	12.39	13.34	12.82	13.73	14.14	3.70	4.65	4.13	5.04	5.44
	12H	12.35	13.26	12.78	13.64	14.07	3.70	4.61	4.13	4.99	5.42
4H	2H	11.61	12.70	12.01	13.06	13.44	2.93	4.03	3.33	4.38	4.76
	3H	12.36	13.25	12.77	13.65	14.06	3.84	4.74	4.26	5.14	5.54
	4H	12.37	13.17	12.81	13.59	14.03	4.15	4.95	4.59	5.37	5.81
	6H	12.31	13.00	12.78	13.44	13.91	4.41	5.09	4.87	5.54	6.00
	8H	12.26	12.90	12.73	13.35	13.82	4.47	5.11	4.94	5.56	6.03
	12H	12.22	12.78	12.70	13.26	13.74	4.49	5.06	4.98	5.54	6.01
8H	4H	12.26	12.89	12.73	13.34	13.81	4.26	4.90	4.73	5.35	5.82
	6H	12.18	12.70	12.68	13.20	13.68	4.58	5.10	5.08	5.59	6.07
	8H	12.13	12.59	12.65	13.11	13.60	4.68	5.15	5.20	5.66	6.15
	12H	12.09	12.50	12.60	12.99	13.56	4.74	5.15	5.25	5.64	6.21
12H	4H	12.21	12.78	12.70	13.26	13.73	4.23	4.80	4.72	5.28	5.75
	6H	12.12	12.59	12.65	13.11	13.60	4.55	5.01	5.07	5.53	6.02
	8H	12.09	12.50	12.60	13.00	13.57	4.68	5.10	5.20	5.59	6.16