

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: P1061660

Luminaire Tested: S125RDRP-S375D940-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D940-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

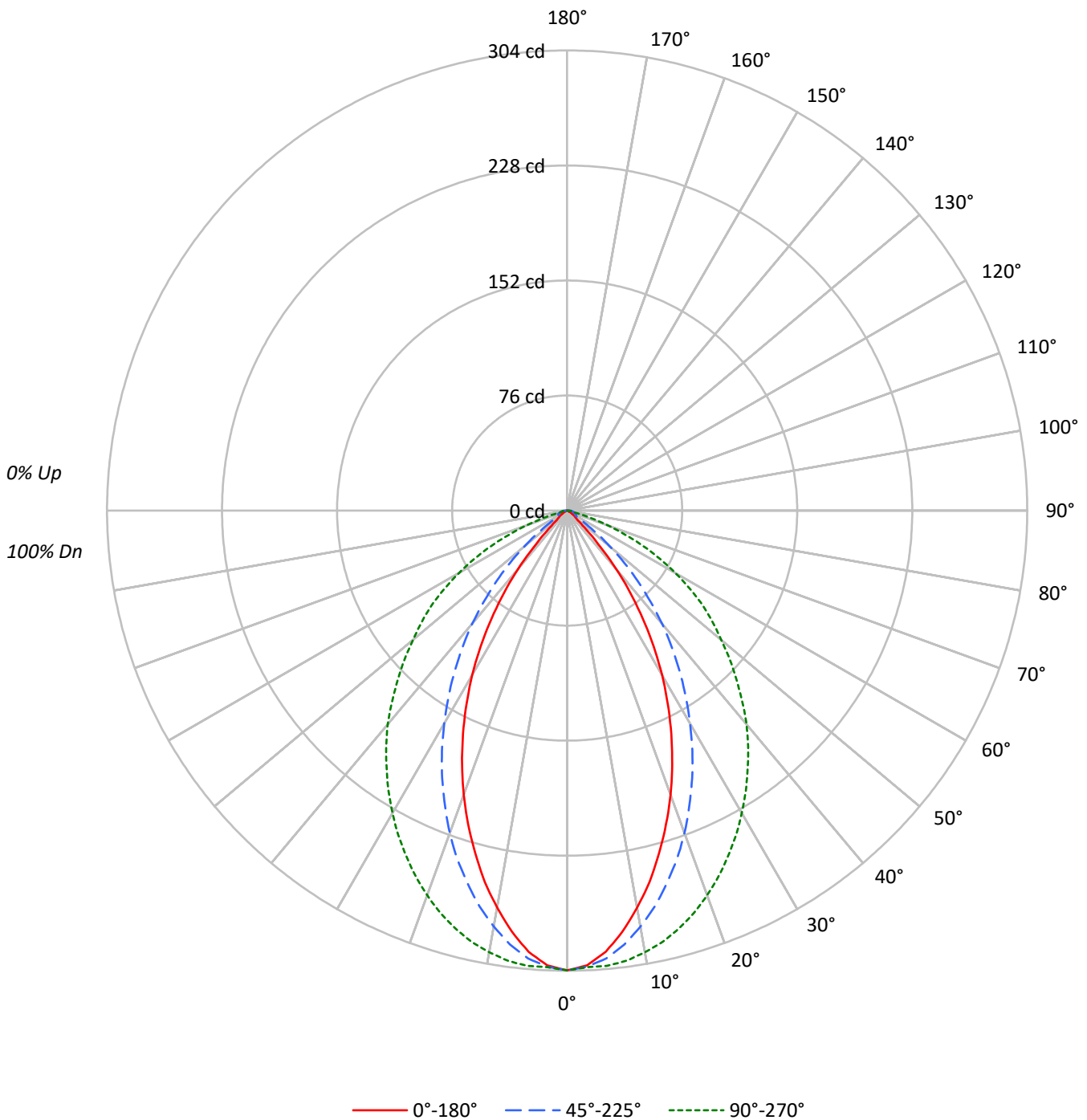
Lumens per Lamp: N/A
Luminaire Lumens: 390.6 lumens
Efficiency: N/A
Efficacy: 31.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (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	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2091	2091	2091
5°	2022	2053	2087
10°	1862	1951	2071
15°	1672	1816	2037
20°	1463	1661	1981
25°	1236	1484	1912
30°	996	1290	1835
35°	733	1088	1748
40°	457	877	1657
45°	171	641	1540
50°	80	401	1422
55°	59	166	1316
60°	41	88	1139
65°	24	104	903
70°	22	121	572
75°	29	120	178
80°	44	147	135
85°	87	237	174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1540 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	7.1
10°-20°	72.1	18.5
20°-30°	91.9	23.5
30°-40°	85.5	21.9
40°-50°	58.6	15.0
50°-60°	32.3	8.3
60°-70°	15.3	3.9
70°-80°	4.8	1.2
80°-90°	2.5	0.6
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°	191.8	49.1
0°-40°	277.3	71.0
0°-60°	368.1	94.2
0°-90°	390.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	390.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	292	296	297	299	302	27
15°	234	242	255	274	286	65
25°	163	173	195	227	252	74
35°	87	100	129	172	208	54
45°	18	30	66	117	158	17
55°	5	6	14	65	110	4
65°	2	2	6	24	55	2
75°	1	2	4	5	7	1
85°	1	3	3	3	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	303.7	303.7	303.7	303.7	303.7
2.5°	300.7	303.7	301.5	301.5	301.9
5°	292.5	296.2	297.0	299.2	301.9
7.5°	280.5	285.4	289.1	295.5	300.0
10°	266.3	272.3	279.0	289.5	296.2
12.5°	251.4	257.7	267.8	282.4	291.8
15°	234.5	242.0	254.7	273.8	285.8
17.5°	217.3	225.5	241.3	263.7	278.7
20°	199.7	208.3	226.7	251.7	270.4
22.5°	181.4	190.8	211.0	239.4	261.5
25°	162.7	172.8	195.3	226.7	251.7
27.5°	144.0	154.5	179.2	213.6	241.6
30°	125.3	136.2	162.3	200.1	230.8
32.5°	106.2	118.2	145.9	186.6	219.6
35°	87.2	99.5	129.4	172.1	208.0
37.5°	68.4	81.2	113.3	158.2	196.4
40°	50.9	63.6	97.6	144.4	184.4
42.5°	32.9	46.4	81.2	130.2	171.3
45°	17.6	29.5	65.8	116.7	158.2
47.5°	9.4	15.7	51.2	103.2	145.9
50°	7.5	8.6	37.4	89.8	132.8
52.5°	6.0	6.7	23.9	75.9	121.2
55°	4.9	5.6	13.8	65.1	109.6
57.5°	3.7	4.5	7.9	54.2	96.1
60°	3.0	3.4	6.4	43.4	82.7
62.5°	1.9	2.6	6.4	33.7	69.2
65°	1.5	1.9	6.4	23.9	55.4
67.5°	1.5	1.5	6.4	15.7	41.5
70°	1.1	1.1	6.0	10.1	28.4
72.5°	1.1	1.1	5.2	6.7	16.5
75°	1.1	1.9	4.5	4.9	6.7
77.5°	1.1	3.0	4.1	4.1	3.7
80°	1.1	3.0	3.7	3.4	3.4
82.5°	1.1	3.0	3.0	3.0	2.6
85°	1.1	2.6	3.0	2.6	2.2
87.5°	1.1	2.6	2.6	2.6	1.5
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	0.00	0.00	0.00	0.00	0.00	11.60	12.89	11.97	13.20	13.52
	3H	0.00	0.00	0.00	0.00	0.00	12.39	13.53	12.77	13.86	14.22
	4H	0.00	0.00	0.00	0.00	0.00	12.42	13.48	12.82	13.83	14.21
	6H	0.00	0.00	0.00	0.00	0.00	12.37	13.35	12.79	13.72	14.11
	8H	0.00	0.00	0.00	0.00	0.00	12.35	13.27	12.78	13.66	14.07
	12H	0.00	0.00	0.00	0.00	0.00	12.33	13.21	12.76	13.59	14.02
4H	2H	0.00	0.00	0.00	0.00	0.00	11.39	12.45	11.79	12.80	13.18
	3H	0.00	0.00	0.00	0.00	0.00	12.22	13.08	12.63	13.48	13.89
	4H	0.00	0.00	0.00	0.00	0.00	12.25	13.02	12.69	13.44	13.89
	6H	0.00	0.00	0.00	0.00	0.00	12.24	12.90	12.70	13.35	13.82
	8H	0.00	0.00	0.00	0.16	0.63	12.22	12.84	12.69	13.29	13.76
	12H	0.00	0.36	0.30	0.85	1.32	12.22	12.77	12.71	13.25	13.73
8H	4H	0.00	0.00	0.00	0.00	0.44	12.14	12.76	12.61	13.20	13.68
	6H	0.64	1.15	1.14	1.64	2.13	12.14	12.64	12.64	13.14	13.62
	8H	1.59	2.05	2.11	2.56	3.05	12.14	12.60	12.67	13.11	13.61
	12H	2.51	2.91	3.03	3.41	3.98	12.19	12.59	12.70	13.08	13.66
12H	4H	0.00	0.00	0.00	0.23	0.71	12.09	12.64	12.58	13.12	13.60
	6H	1.10	1.55	1.62	2.07	2.56	12.09	12.55	12.62	13.06	13.56
	8H	2.23	2.63	2.75	3.13	3.70	12.13	12.53	12.65	13.03	13.60