

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: P1061639

Luminaire Tested: S125RDRP-S375D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D927-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

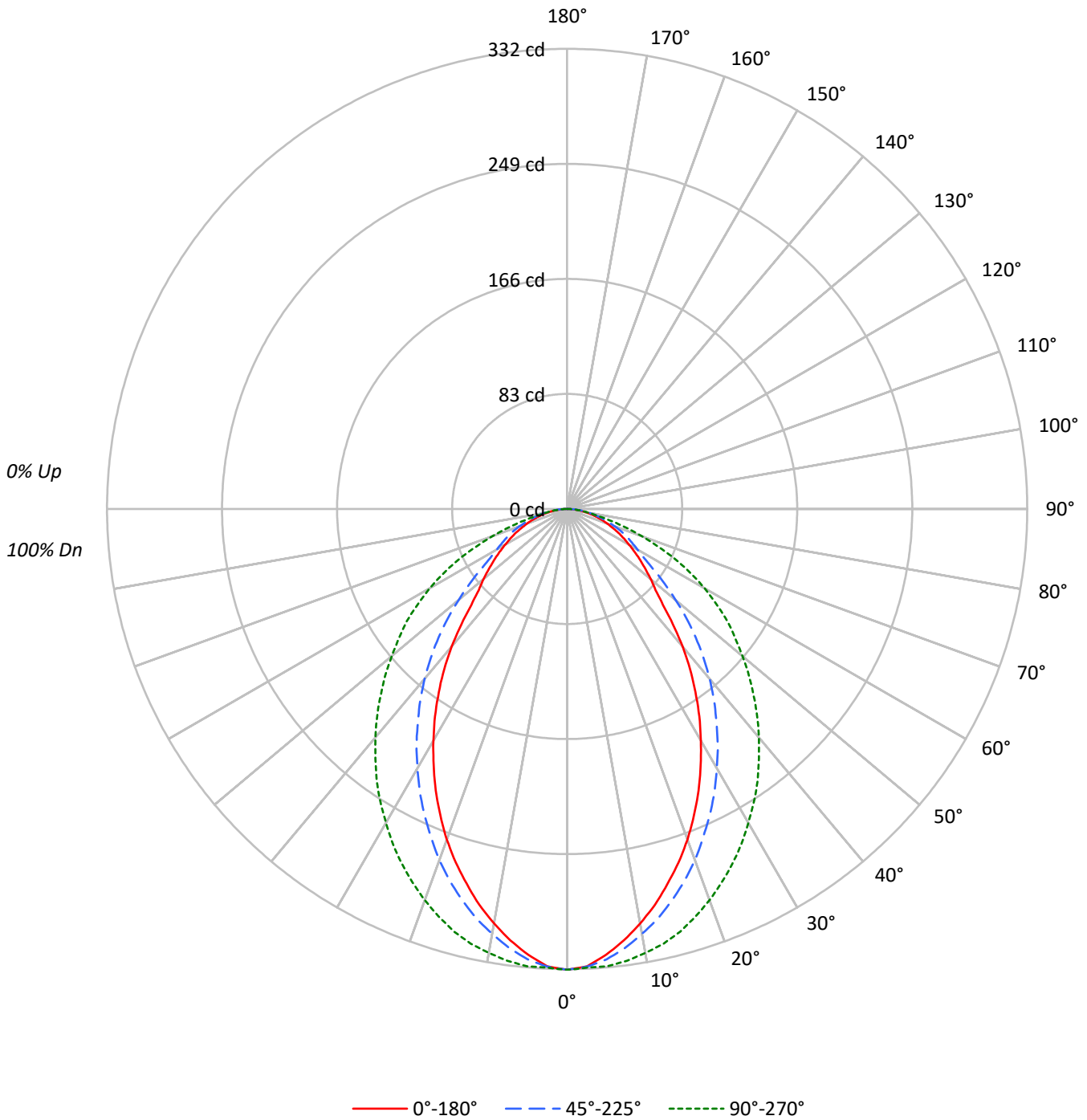
Lumens per Lamp: N/A
Luminaire Lumens: 623.3 lumens
Efficiency: N/A
Efficacy: 49.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	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	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2289	2289	2289
5°	2232	2255	2289
10°	2123	2176	2274
15°	1996	2084	2250
20°	1860	1976	2200
25°	1703	1850	2145
30°	1534	1716	2078
35°	1357	1578	2013
40°	1164	1436	1934
45°	951	1278	1853
50°	843	1096	1768
55°	773	909	1695
60°	713	806	1578
65°	666	774	1408
70°	622	735	1149
75°	575	689	849
80°	539	646	619
85°	498	632	521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1853 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	4.9
10°-20°	82.9	13.3
20°-30°	113.9	18.3
30°-40°	120.7	19.4
40°-50°	105.4	16.9
50°-60°	80.1	12.8
60°-70°	53.6	8.6
70°-80°	27.7	4.4
80°-90°	8.3	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°	227.6	36.5
0°-40°	348.3	55.9
0°-60°	533.7	85.6
0°-90°	623.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	623.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	332	332	332	332	332	
5°	323	326	326	328	331	30
15°	280	285	292	305	316	79
25°	224	231	244	264	282	103
35°	161	171	188	214	240	101
45°	98	107	131	162	190	77
55°	64	66	76	111	141	58
65°	41	42	48	63	86	41
75°	22	23	26	28	32	23
85°	6	8	8	7	7	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	332.5	332.5	332.5	332.5	332.5
2.5°	330.2	332.5	330.5	330.5	331.2
5°	322.9	326.2	326.2	328.5	331.2
7.5°	313.9	317.5	319.5	324.9	328.8
10°	303.6	307.6	311.2	319.2	325.2
12.5°	292.6	297.0	302.6	312.9	321.2
15°	280.0	285.3	292.3	305.3	315.6
17.5°	267.4	272.7	281.3	296.6	308.2
20°	253.8	259.4	269.7	286.3	300.3
22.5°	239.2	245.5	256.4	275.4	291.6
25°	224.2	231.2	243.5	263.7	282.3
27.5°	208.6	216.9	230.2	251.8	272.4
30°	193.0	201.3	215.9	239.5	261.4
32.5°	177.4	186.3	202.3	227.2	250.8
35°	161.4	170.7	187.7	214.2	239.5
37.5°	145.8	155.1	174.1	201.6	227.2
40°	129.5	139.2	159.8	188.7	215.2
42.5°	112.9	123.2	145.5	175.4	203.0
45°	97.7	107.3	131.2	162.4	190.3
47.5°	86.4	92.7	116.9	149.1	178.0
50°	78.7	82.0	102.3	136.2	165.1
52.5°	71.1	73.7	88.7	122.9	152.8
55°	64.4	66.4	75.7	111.3	141.2
57.5°	57.8	59.8	65.8	99.6	127.5
60°	51.8	53.5	58.5	87.4	114.6
62.5°	46.2	47.5	52.8	75.7	100.6
65°	40.9	41.9	47.5	63.4	86.4
67.5°	35.5	36.5	42.2	51.8	71.1
70°	30.9	31.2	36.5	42.2	57.1
72.5°	26.2	26.6	30.9	34.2	43.8
75°	21.6	22.9	25.9	27.6	31.9
77.5°	17.6	19.3	20.9	21.6	21.6
80°	13.6	15.6	16.3	16.3	15.6
82.5°	10.0	11.6	12.0	11.3	10.6
85°	6.3	8.0	8.0	7.3	6.6
87.5°	3.0	4.3	4.3	4.0	3.0
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	9.49	10.98	9.85	11.30	11.61	13.41	14.91	13.77	15.22	15.53
	3H	11.05	12.40	11.43	12.73	13.09	14.83	16.17	15.21	16.50	16.86
	4H	11.67	12.93	12.07	13.28	13.65	15.25	16.51	15.65	16.85	17.23
	6H	12.16	13.33	12.58	13.69	14.08	15.46	16.63	15.88	16.99	17.39
	8H	12.34	13.44	12.76	13.83	14.24	15.52	16.63	15.95	17.02	17.42
	12H	12.46	13.52	12.89	13.90	14.33	15.56	16.62	15.99	17.00	17.43
4H	2H	10.22	11.48	10.62	11.83	12.21	13.54	14.79	13.94	15.14	15.52
	3H	12.00	13.04	12.41	13.44	13.85	15.15	16.19	15.56	16.59	16.99
	4H	12.73	13.68	13.17	14.09	14.53	15.67	16.61	16.11	17.03	17.47
	6H	13.37	14.19	13.83	14.63	15.09	16.02	16.83	16.47	17.28	17.74
	8H	13.60	14.36	14.06	14.81	15.28	16.12	16.88	16.58	17.32	17.79
	12H	13.77	14.46	14.26	14.93	15.41	16.19	16.87	16.67	17.35	17.82
8H	4H	13.14	13.90	13.60	14.34	14.81	15.78	16.55	16.24	16.99	17.46
	6H	13.92	14.55	14.42	15.05	15.52	16.22	16.85	16.72	17.34	17.82
	8H	14.25	14.81	14.76	15.32	15.81	16.38	16.94	16.89	17.46	17.94
	12H	14.52	15.02	15.03	15.51	16.08	16.51	17.01	17.02	17.51	18.07
12H	4H	13.18	13.86	13.66	14.34	14.81	15.78	16.46	16.26	16.94	17.41
	6H	14.01	14.57	14.52	15.08	15.57	16.24	16.80	16.75	17.31	17.80
	8H	14.40	14.90	14.91	15.39	15.96	16.45	16.95	16.96	17.44	18.00