

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: P1061578

Luminaire Tested: S125RDRP-S1270D940-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D940-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

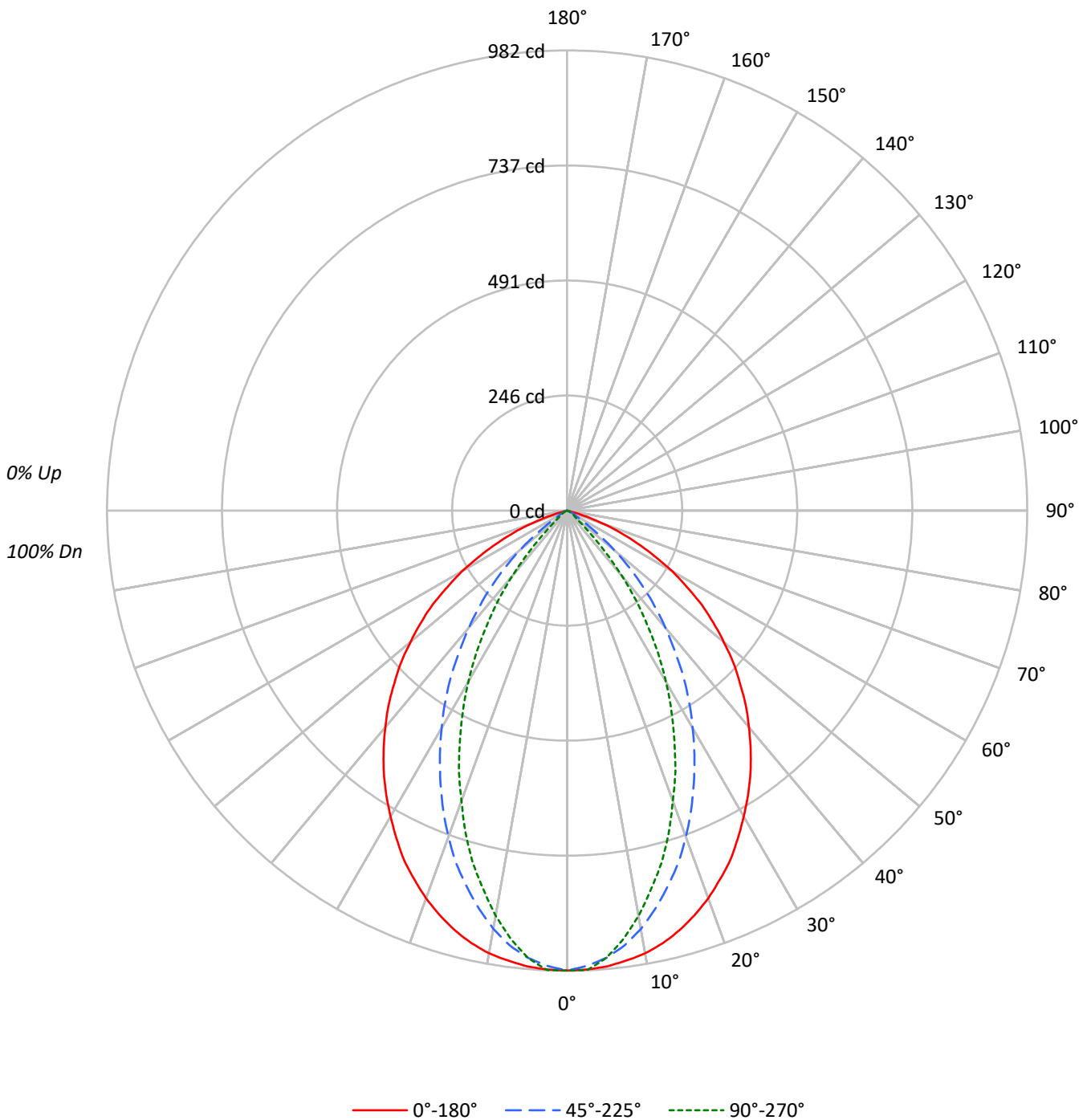
Lumens per Lamp: N/A
Luminaire Lumens: 1268.0 lumens
Efficiency: N/A
Efficacy: 30.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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			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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6758	6758	6758
5°	6748	6623	6623
10°	6708	6337	6138
15°	6608	5916	5547
20°	6452	5427	4829
25°	6256	4860	4112
30°	5991	4262	3356
35°	5736	3635	2514
40°	5423	2933	1630
45°	5081	2219	706
50°	4675	1415	264
55°	4212	622	186
60°	3567	267	125
65°	2700	169	64
70°	1643	79	26
75°	343	35	35
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5081 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	7.1
10°-20°	235.9	18.6
20°-30°	302.8	23.9
30°-40°	285.1	22.5
40°-50°	199.3	15.7
50°-60°	106.5	8.4
60°-70°	42.5	3.3
70°-80°	5.5	0.4
80°-90°	0.0	0.0
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°	629.2	49.6
0°-40°	914.2	72.1
0°-60°	1220.0	96.2
0°-90°	1268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	976	974	958	961	958	93
15°	927	897	830	791	778	261
25°	824	751	640	570	541	378
35°	682	574	432	334	299	426
45°	522	391	228	110	72	403
55°	351	215	52	18	16	311
65°	166	66	10	5	4	165
75°	13	4	1	1	1	25
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	981.5	981.5	981.5	981.5	981.5
2.5°	980.2	981.5	972.4	980.2	981.5
5°	976.3	973.7	958.2	960.8	958.2
7.5°	968.6	962.1	936.2	927.1	921.9
10°	959.5	945.3	906.4	887.0	877.9
12.5°	945.3	924.5	870.1	840.4	827.4
15°	927.1	897.3	830.0	791.2	778.2
17.5°	905.1	866.3	788.6	740.7	721.2
20°	880.5	828.7	740.7	683.7	659.1
22.5°	852.0	792.5	691.5	628.0	603.4
25°	823.5	751.0	639.7	569.7	541.3
27.5°	788.6	708.3	587.9	512.8	481.7
30°	753.6	665.6	536.1	454.5	422.1
32.5°	718.6	620.2	484.3	393.6	361.3
35°	682.4	573.6	432.5	334.1	299.1
37.5°	643.5	527.0	376.8	277.1	240.8
40°	603.4	481.7	326.3	221.4	181.3
42.5°	564.6	436.4	275.8	167.0	123.0
45°	521.8	391.0	227.9	110.1	72.5
47.5°	481.7	347.0	178.7	63.4	37.6
50°	436.4	301.7	132.1	33.7	24.6
52.5°	393.6	257.7	88.1	22.0	19.4
55°	350.9	214.9	51.8	18.1	15.5
57.5°	301.7	173.5	28.5	14.2	11.7
60°	259.0	136.0	19.4	10.4	9.1
62.5°	209.8	99.7	14.2	7.8	6.5
65°	165.7	66.0	10.4	5.2	3.9
67.5°	123.0	38.8	6.5	2.6	2.6
70°	81.6	20.7	3.9	1.3	1.3
72.5°	42.7	9.1	2.6	1.3	1.3
75°	12.9	3.9	1.3	1.3	1.3
77.5°	0.0	1.3	0.0	0.0	1.3
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	15.58	16.85	15.95	17.16	17.47	0.00	0.00	0.00	0.00	0.00
	3H	16.17	17.28	16.55	17.61	17.97	0.00	0.00	0.00	0.00	0.00
	4H	16.13	17.16	16.53	17.51	17.90	0.00	0.00	0.00	0.00	0.00
	6H	16.04	16.99	16.46	17.36	17.76	0.00	0.00	0.00	0.00	0.00
	8H	16.00	16.89	16.43	17.28	17.69	0.00	0.00	0.00	0.00	0.00
	12H	15.95	16.80	16.39	17.19	17.62	0.00	0.00	0.00	0.00	0.00
4H	2H	15.36	16.39	15.76	16.74	17.12	0.00	0.00	0.00	0.00	0.00
	3H	15.95	16.78	16.36	17.19	17.59	0.00	0.00	0.00	0.00	0.00
	4H	15.90	16.64	16.33	17.06	17.50	0.00	0.00	0.00	0.00	0.00
	6H	15.81	16.45	16.27	16.89	17.36	0.00	0.00	0.00	0.00	0.00
	8H	15.75	16.34	16.22	16.79	17.26	0.00	0.00	0.00	0.00	0.00
	12H	15.70	16.22	16.19	16.70	17.18	0.00	0.00	0.00	0.00	0.00
8H	4H	15.75	16.34	16.22	16.79	17.26	0.00	0.00	0.00	0.00	0.00
	6H	15.64	16.12	16.15	16.62	17.10	0.00	0.00	0.00	0.00	0.00
	8H	15.58	16.01	16.10	16.52	17.02	0.00	0.00	0.00	0.00	0.00
	12H	15.53	15.91	16.04	16.40	16.98	0.00	0.00	0.00	0.00	0.00
12H	4H	15.70	16.22	16.19	16.70	17.18	0.00	0.00	0.00	0.00	0.00
	6H	15.58	16.01	16.10	16.52	17.02	0.00	0.00	0.00	0.00	0.00
	8H	15.53	15.91	16.04	16.40	16.98	0.00	0.00	0.00	0.00	0.00