

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: P1061578

Luminaire Tested: S125RDR-S1270D940-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S125RDR-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

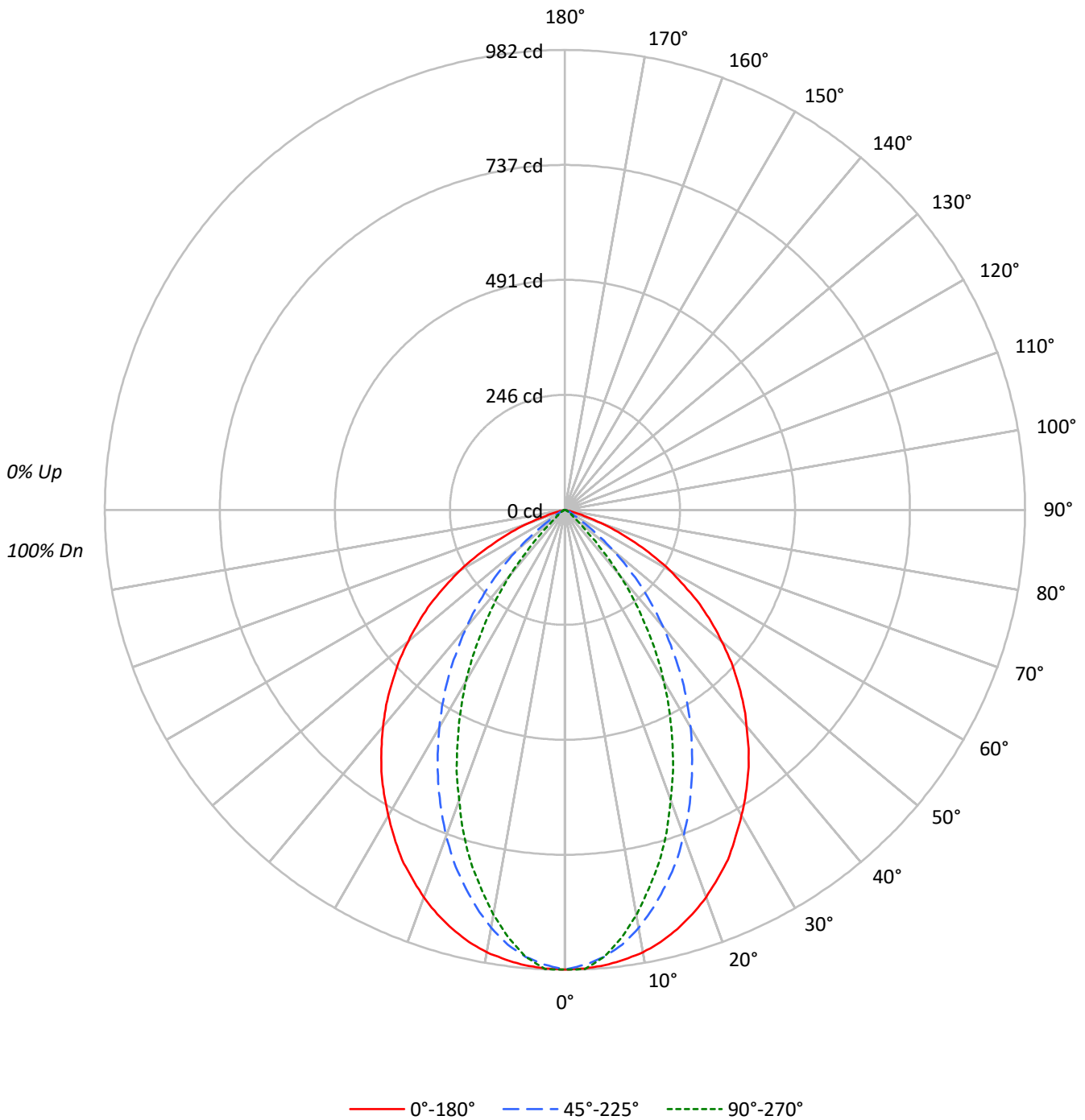
Lumens per Lamp: N/A
Luminaire Lumens: 1268.0 lumens
Efficiency: N/A
Efficacy: 30.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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	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	



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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

(END OF REPORT)