

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: P1061519

Luminaire Tested: S125RDRP-S1270D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D830-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

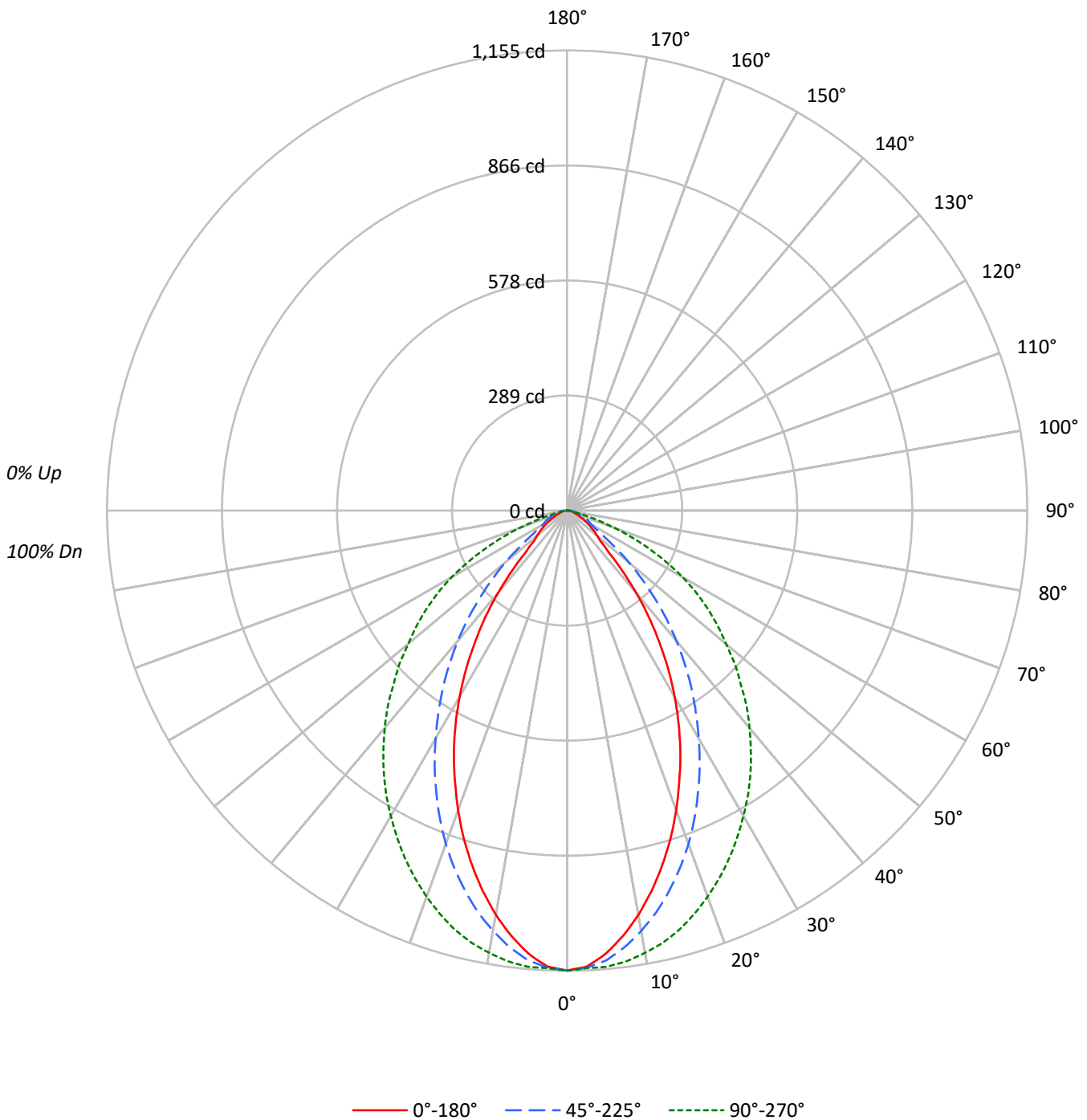
Lumens per Lamp: N/A
Luminaire Lumens: 1667.3 lumens
Efficiency: N/A
Efficacy: 39.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	
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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7950	7950	7950
5°	7715	7829	7943
10°	7201	7489	7881
15°	6571	7049	7762
20°	5861	6523	7557
25°	5109	5910	7315
30°	4291	5249	7035
35°	3385	4571	6746
40°	2425	3841	6401
45°	1427	3015	6002
50°	1056	2171	5575
55°	888	1316	5180
60°	716	963	4621
65°	557	916	3705
70°	469	856	2508
75°	436	766	1093
80°	436	761	706
85°	537	972	758

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6002 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	6.4
10°-20°	279.5	16.8
20°-30°	365.3	21.9
30°-40°	355.5	21.3
40°-50°	265.7	15.9
50°-60°	164.8	9.9
60°-70°	86.6	5.2
70°-80°	31.6	1.9
80°-90°	11.9	0.7
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°	751.2	45.1
0°-40°	1106.7	66.4
0°-60°	1537.3	92.2
0°-90°	1667.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1667.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1116	1131	1133	1140	1149	104
15°	922	949	989	1049	1089	257
25°	672	707	778	884	963	307
35°	403	446	544	689	803	251
45°	147	192	310	484	616	123
55°	74	78	110	285	432	67
65°	34	37	56	120	227	36
75°	16	19	29	32	41	18
85°	7	12	12	12	10	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.7	1154.7	1154.7	1154.7	1154.7
2.5°	1145.1	1154.7	1147.8	1147.8	1149.2
5°	1116.3	1131.4	1132.7	1139.6	1149.2
7.5°	1076.6	1094.4	1105.4	1125.9	1141.0
10°	1030.0	1050.6	1071.1	1105.4	1127.3
12.5°	978.0	1002.6	1032.8	1079.3	1110.8
15°	921.8	949.2	988.9	1049.2	1088.9
17.5°	862.9	891.7	941.0	1013.6	1061.5
20°	799.9	831.4	890.3	972.5	1031.4
22.5°	735.5	771.1	835.5	928.7	998.5
25°	672.5	706.8	778.0	883.5	962.9
27.5°	606.8	642.4	720.5	836.9	924.5
30°	539.7	578.0	660.2	788.9	884.8
32.5°	472.5	512.3	601.3	739.6	845.1
35°	402.7	446.5	543.8	689.0	802.6
37.5°	336.9	383.5	484.9	636.9	757.4
40°	269.8	317.8	427.3	586.2	712.2
42.5°	204.1	253.4	368.5	534.2	667.0
45°	146.6	191.8	309.6	483.5	616.4
47.5°	112.3	138.3	254.8	431.5	571.2
50°	98.6	106.8	202.7	380.8	520.5
52.5°	86.3	91.8	150.7	331.5	476.7
55°	74.0	78.1	109.6	284.9	431.5
57.5°	63.0	67.1	83.6	242.4	384.9
60°	52.0	56.2	69.9	200.0	335.6
62.5°	43.8	45.2	63.0	160.3	280.8
65°	34.2	37.0	56.2	120.5	227.4
67.5°	28.8	30.1	49.3	86.3	175.3
70°	23.3	24.7	42.5	60.3	124.6
72.5°	20.5	20.5	35.6	43.8	79.4
75°	16.4	19.2	28.8	31.5	41.1
77.5°	13.7	19.2	24.7	23.3	21.9
80°	11.0	17.8	19.2	19.2	17.8
82.5°	9.6	15.1	16.4	15.1	13.7
85°	6.8	12.3	12.3	12.3	9.6
87.5°	5.5	11.0	9.6	9.6	6.8
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	6.99	8.34	7.35	8.65	8.97	16.69	18.04	17.06	18.36	18.67
	3H	7.83	9.03	8.21	9.36	9.72	17.61	18.80	17.98	19.13	19.50
	4H	8.19	9.30	8.59	9.65	10.04	17.70	18.82	18.11	19.17	19.55
	6H	8.56	9.59	8.98	9.96	10.35	17.69	18.72	18.10	19.09	19.48
	8H	8.74	9.72	9.17	10.11	10.51	17.68	18.65	18.11	19.04	19.45
	12H	8.90	9.83	9.34	10.22	10.65	17.66	18.59	18.10	18.98	19.41
4H	2H	7.82	8.94	8.22	9.29	9.67	16.54	17.66	16.95	18.01	18.39
	3H	8.88	9.79	9.29	10.20	10.60	17.53	18.45	17.95	18.85	19.25
	4H	9.33	10.15	9.77	10.57	11.01	17.66	18.48	18.10	18.90	19.34
	6H	9.89	10.60	10.35	11.04	11.51	17.69	18.40	18.16	18.85	19.31
	8H	10.15	10.81	10.62	11.26	11.73	17.70	18.35	18.16	18.80	19.27
	12H	10.39	10.98	10.88	11.46	11.93	17.70	18.29	18.19	18.77	19.24
8H	4H	9.89	10.55	10.36	10.99	11.47	17.59	18.25	18.06	18.69	19.16
	6H	10.67	11.21	11.17	11.70	12.18	17.65	18.19	18.15	18.68	19.16
	8H	11.08	11.57	11.61	12.08	12.58	17.68	18.16	18.20	18.68	19.17
	12H	11.50	11.93	12.01	12.42	12.99	17.73	18.16	18.24	18.65	19.22
12H	4H	9.95	10.53	10.44	11.02	11.49	17.55	18.14	18.04	18.62	19.09
	6H	10.81	11.30	11.33	11.81	12.30	17.61	18.10	18.13	18.61	19.10
	8H	11.34	11.77	11.85	12.26	12.83	17.68	18.11	18.19	18.60	19.17