

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: P1061581

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D940-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

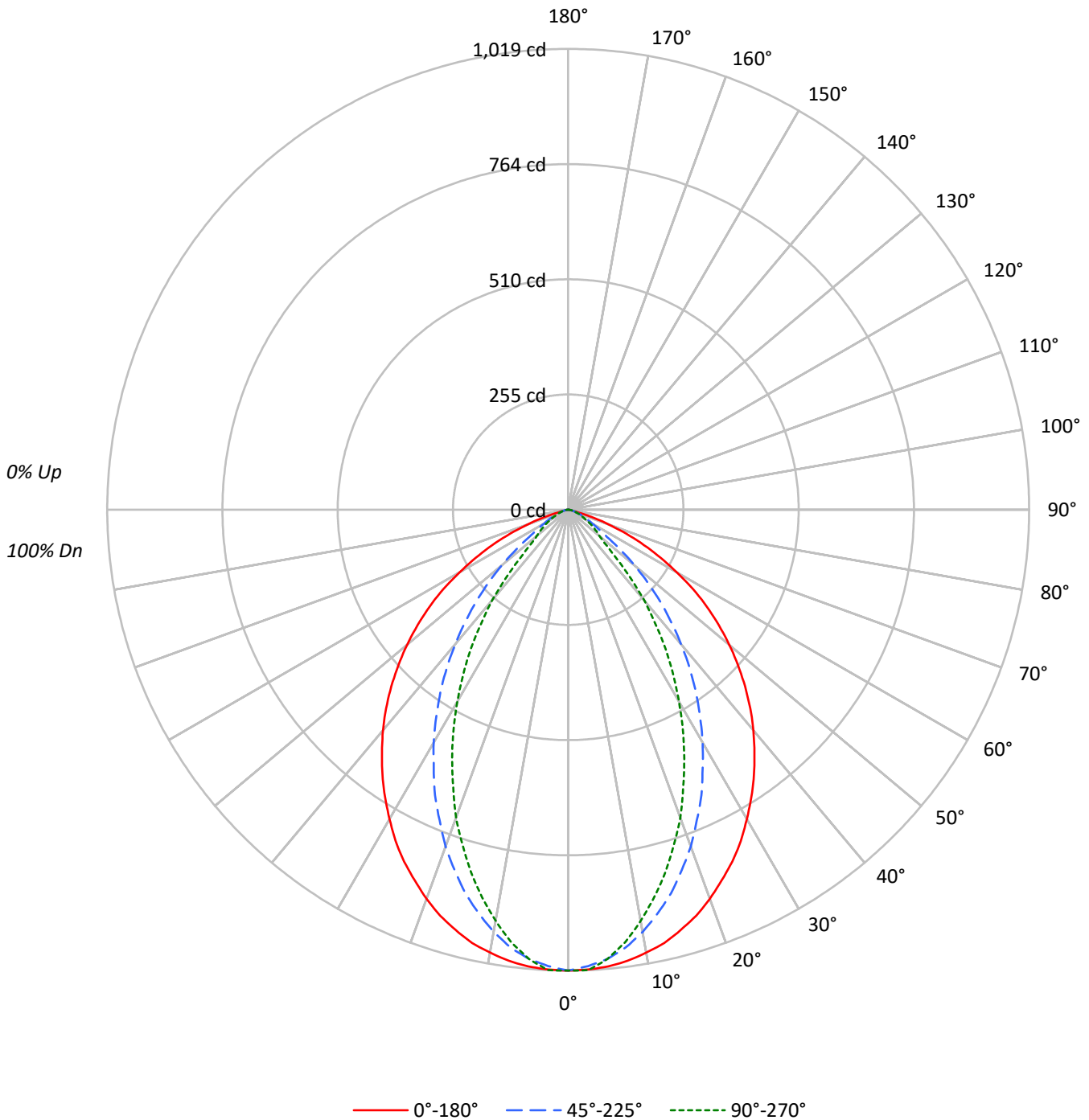
Lumens per Lamp: N/A
Luminaire Lumens: 1473.9 lumens
Efficiency: N/A
Efficacy: 35.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7017	7017	7017
5°	7008	6891	6891
10°	6953	6627	6455
15°	6858	6258	5917
20°	6708	5807	5314
25°	6523	5293	4614
30°	6280	4726	3892
35°	6019	4136	3156
40°	5726	3492	2340
45°	5384	2799	1412
50°	4980	2053	970
55°	4492	1259	808
60°	3816	857	642
65°	3017	653	507
70°	1902	469	417
75°	620	343	343
80°	206	258	309
85°	103	205	205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5384 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	6.4
10°-20°	248.9	16.9
20°-30°	327.4	22.2
30°-40°	321.7	21.8
40°-50°	243.4	16.5
50°-60°	147.6	10.0
60°-70°	69.7	4.7
70°-80°	18.2	1.2
80°-90°	2.7	0.2
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
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0°-30°	670.6	45.5
0°-40°	992.3	67.3
0°-60°	1383.3	93.9
0°-90°	1473.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1473.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1014	1011	997	998	997	96
15°	962	936	878	844	830	271
25°	859	794	697	632	607	395
35°	716	620	492	405	376	447
45°	553	435	288	183	145	426
55°	374	256	105	71	67	333
65°	185	94	40	34	31	183
75°	23	16	13	13	13	36
85°	1	1	3	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.1	1019.1	1019.1	1019.1	1019.1
2.5°	1017.8	1017.8	1010.1	1019.1	1019.1
5°	1013.9	1011.4	997.1	998.4	997.1
7.5°	1006.2	1001.0	976.4	969.9	964.7
10°	994.5	984.2	947.9	932.4	923.3
12.5°	981.6	963.4	914.2	892.2	878.0
15°	962.1	936.2	878.0	844.3	830.1
17.5°	941.4	903.9	835.2	795.1	777.0
20°	915.5	871.5	792.5	743.3	725.2
22.5°	887.0	835.2	743.3	688.9	664.3
25°	858.6	793.8	696.7	631.9	607.3
27.5°	826.2	752.4	643.6	576.3	549.1
30°	789.9	710.9	594.4	524.5	489.5
32.5°	753.7	668.2	542.6	466.2	431.2
35°	716.1	620.3	492.1	405.3	375.5
37.5°	676.0	575.0	440.3	349.6	314.7
40°	637.1	529.6	388.5	292.7	260.3
42.5°	595.7	484.3	336.7	237.0	200.7
45°	552.9	435.1	287.5	182.6	145.0
47.5°	508.9	391.1	238.3	134.7	108.8
50°	464.9	344.5	191.7	99.7	90.6
52.5°	419.6	299.1	145.0	82.9	79.0
55°	374.2	256.4	104.9	71.2	67.3
57.5°	327.6	209.8	79.0	60.9	57.0
60°	277.1	168.3	62.2	50.5	46.6
62.5°	230.5	132.1	50.5	41.4	38.8
65°	185.2	94.5	40.1	33.7	31.1
67.5°	138.6	63.5	31.1	25.9	25.9
70°	94.5	41.4	23.3	20.7	20.7
72.5°	57.0	24.6	16.8	16.8	16.8
75°	23.3	15.5	12.9	12.9	12.9
77.5°	7.8	9.1	9.1	10.4	10.4
80°	5.2	5.2	6.5	7.8	7.8
82.5°	2.6	3.9	3.9	5.2	5.2
85°	1.3	1.3	2.6	2.6	2.6
87.5°	0.0	0.0	0.0	1.3	1.3
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	16.10	17.43	16.46	17.74	18.06	6.76	8.09	7.12	8.40	8.72
	3H	16.80	17.98	17.18	18.31	18.68	7.54	8.71	7.92	9.04	9.41
	4H	16.82	17.92	17.22	18.27	18.65	7.78	8.88	8.19	9.23	9.61
	6H	16.75	17.76	17.17	18.13	18.52	7.96	8.97	8.38	9.34	9.73
	8H	16.71	17.66	17.14	18.05	18.46	8.01	8.96	8.44	9.35	9.76
	12H	16.67	17.58	17.10	17.96	18.39	8.02	8.93	8.45	9.31	9.74
4H	2H	15.93	17.03	16.33	17.38	17.76	7.24	8.34	7.65	8.69	9.07
	3H	16.68	17.57	17.09	17.97	18.37	8.15	9.04	8.56	9.44	9.85
	4H	16.69	17.49	17.13	17.91	18.35	8.46	9.25	8.89	9.67	10.12
	6H	16.63	17.32	17.10	17.76	18.23	8.72	9.41	9.19	9.85	10.32
	8H	16.58	17.22	17.05	17.67	18.14	8.79	9.43	9.26	9.87	10.34
	12H	16.54	17.10	17.02	17.58	18.06	8.81	9.38	9.30	9.86	10.33
8H	4H	16.58	17.21	17.05	17.66	18.13	8.57	9.21	9.04	9.66	10.13
	6H	16.50	17.02	17.00	17.52	18.00	8.89	9.41	9.40	9.91	10.39
	8H	16.45	16.91	16.97	17.43	17.92	9.00	9.47	9.52	9.98	10.47
	12H	16.41	16.82	16.92	17.31	17.88	9.06	9.47	9.58	9.97	10.54
12H	4H	16.53	17.10	17.02	17.58	18.05	8.54	9.11	9.03	9.59	10.06
	6H	16.44	16.91	16.97	17.43	17.92	8.86	9.33	9.39	9.85	10.34
	8H	16.41	16.82	16.92	17.32	17.89	9.01	9.42	9.52	9.91	10.48