

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: P1061536

Luminaire Tested: S125RDRP-S1270D840-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061536
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-S1270D840-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, 80 CRI LEDS
Ballast/Driver: -

Summary

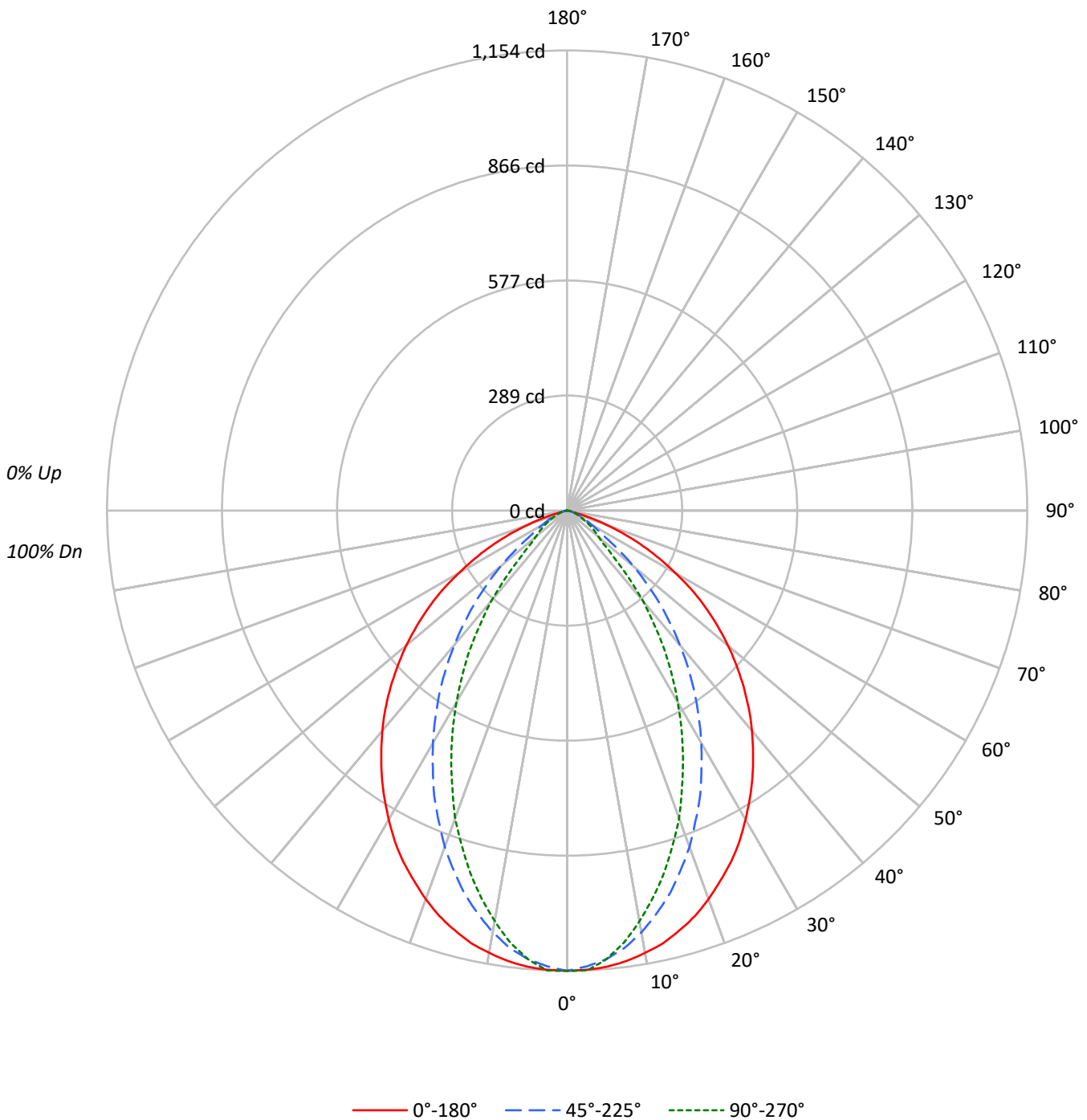
Lumens per Lamp: N/A
Luminaire Lumens: 1669.2 lumens
Efficiency: N/A
Efficacy: 39.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	7947	7947	7947
5°	7937	7805	7805
10°	7874	7505	7310
15°	7767	7087	6700
20°	7597	6576	6018
25°	7387	5994	5225
30°	7112	5351	4408
35°	6817	4684	3575
40°	6485	3955	2650
45°	6097	3170	1600
50°	5640	2324	1100
55°	5087	1426	916
60°	4321	969	727
65°	3416	741	573
70°	2156	531	473
75°	702	391	391
80°	234	289	349
85°	118	229	229

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6097 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	6.4
10°-20°	281.9	16.9
20°-30°	370.8	22.2
30°-40°	364.4	21.8
40°-50°	275.6	16.5
50°-60°	167.1	10.0
60°-70°	78.9	4.7
70°-80°	20.6	1.2
80°-90°	3.1	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
0°-30°	759.5	45.5
0°-40°	1123.8	67.3
0°-60°	1566.6	93.9
0°-90°	1669.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1669.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1148	1145	1129	1131	1129	109
15°	1090	1060	994	956	940	307
25°	972	899	789	716	688	447
35°	811	702	557	459	425	506
45°	626	493	326	207	164	482
55°	424	290	119	81	76	377
65°	210	107	46	38	35	207
75°	26	18	15	15	15	41
85°	2	2	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°	1154.2	1154.2	1154.2	1154.2	1154.2
2.5°	1152.7	1152.7	1143.9	1154.2	1154.2
5°	1148.3	1145.4	1129.2	1130.7	1129.2
7.5°	1139.5	1133.6	1105.8	1098.4	1092.6
10°	1126.3	1114.6	1073.5	1055.9	1045.6
12.5°	1111.6	1091.1	1035.4	1010.4	994.3
15°	1089.6	1060.3	994.3	956.2	940.0
17.5°	1066.2	1023.6	945.9	900.5	879.9
20°	1036.8	987.0	897.5	841.8	821.3
22.5°	1004.6	945.9	841.8	780.2	752.3
25°	972.3	899.0	789.0	715.7	687.8
27.5°	935.6	852.1	728.9	652.6	621.8
30°	894.6	805.1	673.1	593.9	554.4
32.5°	853.5	756.7	614.5	528.0	488.4
35°	811.0	702.5	557.3	459.0	425.3
37.5°	765.5	651.1	498.6	396.0	356.4
40°	721.5	599.8	440.0	331.4	294.8
42.5°	674.6	548.5	381.3	268.4	227.3
45°	626.2	492.8	325.6	206.8	164.3
47.5°	576.3	442.9	269.8	152.5	123.2
50°	526.5	390.1	217.0	112.9	102.7
52.5°	475.2	338.8	164.3	93.9	89.5
55°	423.8	290.4	118.8	80.7	76.3
57.5°	371.0	237.6	89.5	68.9	64.5
60°	313.8	190.6	70.4	57.2	52.8
62.5°	261.0	149.6	57.2	46.9	44.0
65°	209.7	107.1	45.5	38.1	35.2
67.5°	156.9	71.9	35.2	29.3	29.3
70°	107.1	46.9	26.4	23.5	23.5
72.5°	64.5	27.9	19.1	19.1	19.1
75°	26.4	17.6	14.7	14.7	14.7
77.5°	8.8	10.3	10.3	11.7	11.7
80°	5.9	5.9	7.3	8.8	8.8
82.5°	2.9	4.4	4.4	5.9	5.9
85°	1.5	1.5	2.9	2.9	2.9
87.5°	0.0	0.0	0.0	1.5	1.5
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	16.53	17.86	16.90	18.17	18.49	7.18	8.52	7.55	8.83	9.14
	3H	17.24	18.41	17.62	18.74	19.11	7.96	9.14	8.34	9.47	9.84
	4H	17.25	18.35	17.66	18.70	19.08	8.22	9.31	8.62	9.66	10.05
	6H	17.18	18.19	17.60	18.56	18.95	8.39	9.40	8.81	9.77	10.16
	8H	17.14	18.09	17.57	18.49	18.89	8.44	9.39	8.87	9.78	10.19
	12H	17.10	18.01	17.53	18.39	18.82	8.45	9.36	8.88	9.74	10.17
4H	2H	16.36	17.46	16.76	17.81	18.19	7.67	8.77	8.07	9.12	9.50
	3H	17.11	18.00	17.52	18.40	18.81	8.58	9.47	8.99	9.88	10.28
	4H	17.13	17.92	17.56	18.34	18.78	8.89	9.69	9.33	10.11	10.55
	6H	17.06	17.75	17.53	18.20	18.66	9.15	9.84	9.62	10.28	10.75
	8H	17.01	17.65	17.48	18.10	18.57	9.22	9.86	9.69	10.31	10.78
	12H	16.97	17.53	17.46	18.02	18.49	9.25	9.81	9.73	10.29	10.77
8H	4H	17.01	17.65	17.48	18.09	18.56	9.01	9.65	9.48	10.09	10.56
	6H	16.93	17.45	17.44	17.95	18.43	9.33	9.84	9.83	10.34	10.82
	8H	16.88	17.35	17.40	17.86	18.35	9.43	9.90	9.95	10.41	10.91
	12H	16.84	17.25	17.35	17.75	18.32	9.49	9.90	10.01	10.40	10.97
12H	4H	16.97	17.53	17.45	18.01	18.49	8.98	9.54	9.47	10.03	10.50
	6H	16.88	17.34	17.40	17.86	18.35	9.30	9.76	9.82	10.28	10.77
	8H	16.84	17.25	17.36	17.75	18.32	9.44	9.85	9.95	10.34	10.91