

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: P1061533

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061533
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-S1270D840-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, 80 CRI LEDS
Ballast/Driver: -

Summary

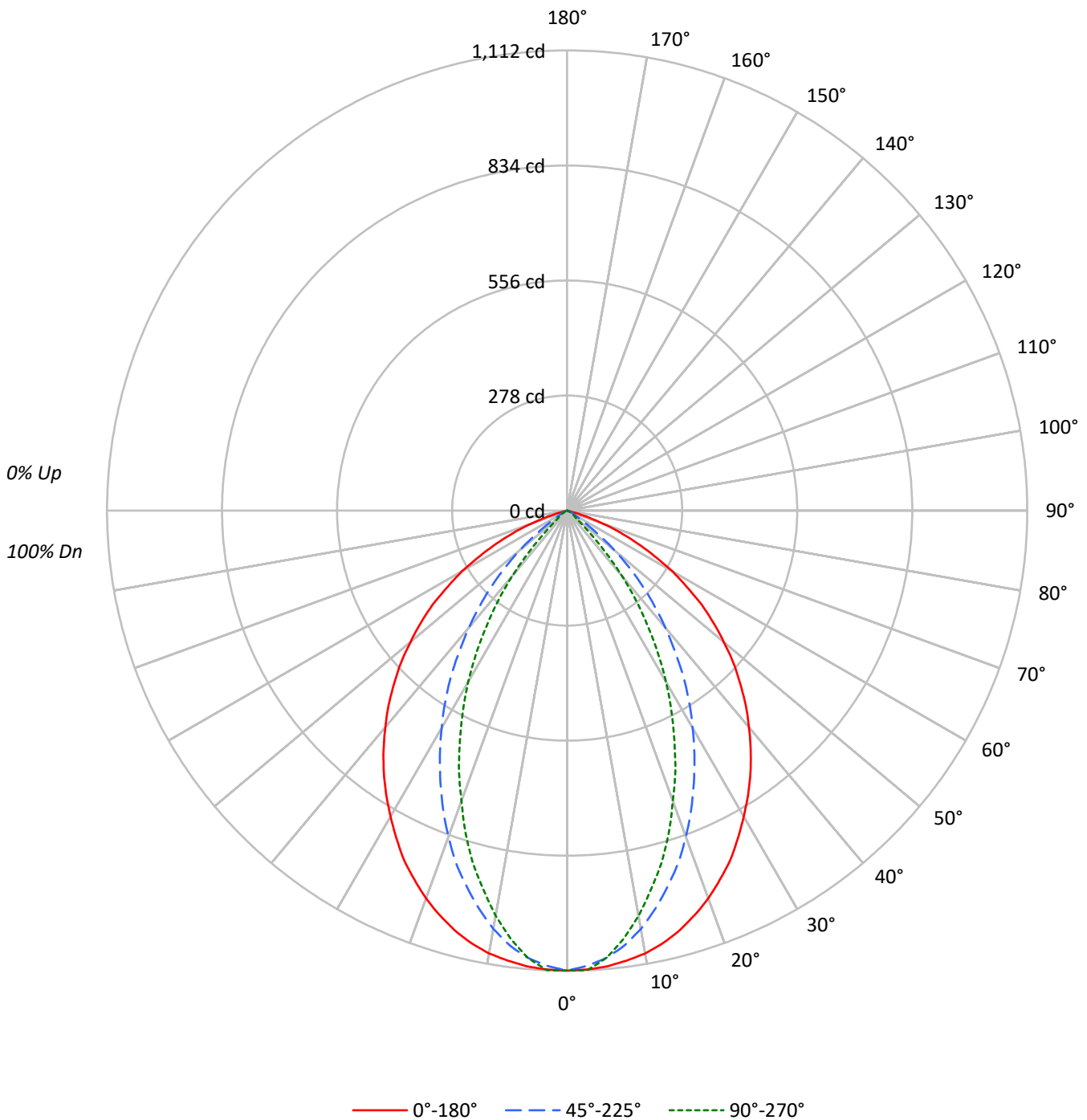
Lumens per Lamp: N/A
Luminaire Lumens: 1436.0 lumens
Efficiency: N/A
Efficacy: 34.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: S125RDRP-S1270D840-X4F0-XX-UDD-BVL-B

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°	7654	7654	7654
5°	7642	7500	7500
10°	7597	7177	6951
15°	7485	6700	6282
20°	7307	6146	5469
25°	7086	5503	4657
30°	6786	4827	3801
35°	6496	4117	2847
40°	6142	3321	1845
45°	5755	2513	799
50°	5294	1602	299
55°	4770	705	211
60°	4039	303	142
65°	3058	191	72
70°	1860	89	30
75°	391	40	40
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	7.1
10°-20°	267.1	18.6
20°-30°	343.0	23.9
30°-40°	322.8	22.5
40°-50°	225.7	15.7
50°-60°	120.6	8.4
60°-70°	48.1	3.3
70°-80°	6.2	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°	712.5	49.6
0°-40°	1035.4	72.1
0°-60°	1381.7	96.2
0°-90°	1436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1106	1103	1085	1088	1085	105
15°	1050	1016	940	896	881	295
25°	933	850	724	645	613	428
35°	773	650	490	378	339	482
45°	591	443	258	125	82	456
55°	397	243	59	20	18	352
65°	188	75	12	6	4	187
75°	15	4	2	2	2	29
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°	1111.6	1111.6	1111.6	1111.6	1111.6
2.5°	1110.1	1111.6	1101.3	1110.1	1111.6
5°	1105.7	1102.8	1085.2	1088.1	1085.2
7.5°	1096.9	1089.6	1060.2	1050.0	1044.1
10°	1086.6	1070.5	1026.5	1004.5	994.2
12.5°	1070.5	1047.0	985.4	951.7	937.1
15°	1050.0	1016.2	940.0	896.0	881.3
17.5°	1025.0	981.0	893.1	838.8	816.8
20°	997.2	938.5	838.8	774.3	746.4
22.5°	964.9	897.5	783.1	711.2	683.4
25°	932.7	850.5	724.4	645.2	613.0
27.5°	893.1	802.1	665.8	580.7	545.5
30°	853.5	753.7	607.1	514.7	478.1
32.5°	813.9	702.4	548.4	445.8	409.1
35°	772.8	649.6	489.8	378.3	338.7
37.5°	728.8	596.8	426.7	313.8	272.8
40°	683.4	545.5	369.5	250.8	205.3
42.5°	639.4	494.2	312.4	189.2	139.3
45°	591.0	442.9	258.1	124.6	82.1
47.5°	545.5	393.0	202.4	71.9	42.5
50°	494.2	341.7	149.6	38.1	27.9
52.5°	445.8	291.8	99.7	24.9	22.0
55°	397.4	243.4	58.7	20.5	17.6
57.5°	341.7	196.5	32.3	16.1	13.2
60°	293.3	154.0	22.0	11.7	10.3
62.5°	237.6	112.9	16.1	8.8	7.3
65°	187.7	74.8	11.7	5.9	4.4
67.5°	139.3	44.0	7.3	2.9	2.9
70°	92.4	23.5	4.4	1.5	1.5
72.5°	48.4	10.3	2.9	1.5	1.5
75°	14.7	4.4	1.5	1.5	1.5
77.5°	0.0	1.5	0.0	0.0	1.5
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	16.01	17.28	16.38	17.59	17.91	0.00	0.00	0.00	0.00	0.00
	3H	16.60	17.71	16.98	18.04	18.41	0.00	0.00	0.00	0.00	0.00
	4H	16.56	17.60	16.97	17.95	18.33	0.00	0.00	0.00	0.00	0.00
	6H	16.48	17.42	16.89	17.79	18.19	0.00	0.00	0.00	0.00	0.00
	8H	16.43	17.32	16.86	17.72	18.12	0.00	0.00	0.00	0.00	0.00
	12H	16.39	17.24	16.82	17.62	18.05	0.00	0.00	0.00	0.00	0.00
4H	2H	15.79	16.82	16.19	17.17	17.56	0.00	0.00	0.00	0.00	0.00
	3H	16.38	17.22	16.79	17.62	18.02	0.00	0.00	0.00	0.00	0.00
	4H	16.33	17.07	16.77	17.49	17.94	0.00	0.00	0.00	0.00	0.00
	6H	16.24	16.88	16.71	17.33	17.80	0.00	0.00	0.00	0.00	0.00
	8H	16.18	16.78	16.65	17.22	17.70	0.00	0.00	0.00	0.00	0.00
	12H	16.13	16.65	16.62	17.14	17.61	0.00	0.00	0.00	0.00	0.00
8H	4H	16.18	16.78	16.65	17.22	17.70	0.00	0.00	0.00	0.00	0.00
	6H	16.08	16.56	16.58	17.05	17.54	0.00	0.00	0.00	0.00	0.00
	8H	16.01	16.44	16.53	16.96	17.45	0.00	0.00	0.00	0.00	0.00
	12H	15.96	16.34	16.48	16.84	17.41	0.00	0.00	0.00	0.00	0.00
12H	4H	16.13	16.65	16.62	17.14	17.61	0.00	0.00	0.00	0.00	0.00
	6H	16.01	16.44	16.53	16.96	17.45	0.00	0.00	0.00	0.00	0.00
	8H	15.96	16.34	16.48	16.84	17.41	0.00	0.00	0.00	0.00	0.00