

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: P1061476

Luminaire Tested: S125RDRP-S1090D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1090D927-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

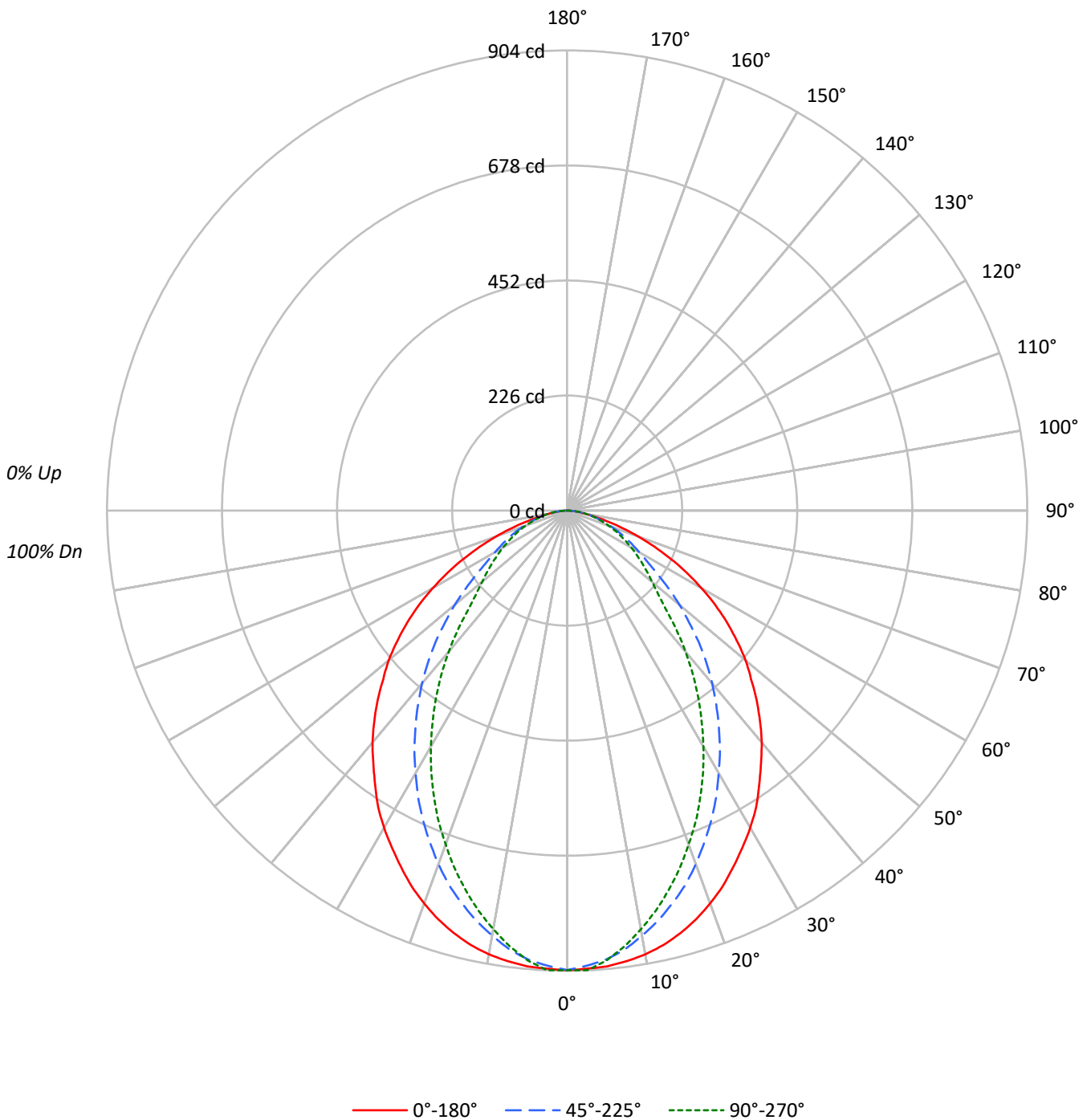
Lumens per Lamp: N/A
Luminaire Lumens: 1710.2 lumens
Efficiency: N/A
Efficacy: 48.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	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													100															
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87													87															
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75													75															
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65													65															
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57													57															
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50													50															
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45													45															
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40													40															
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36													36															
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33													33															
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30													30															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6216	6216	6216
5°	6213	6117	6131
10°	6188	5928	5839
15°	6127	5695	5499
20°	6018	5415	5114
25°	5868	5094	4706
30°	5720	4730	4255
35°	5528	4367	3773
40°	5348	3983	3251
45°	5126	3560	2663
50°	4904	3087	2331
55°	4601	2577	2154
60°	4197	2254	2012
65°	3672	2059	1869
70°	2979	1854	1737
75°	2139	1695	1617
80°	1475	1515	1515
85°	1082	1319	1390

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5126 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	4.9
10°-20°	227.0	13.3
20°-30°	313.8	18.3
30°-40°	334.2	19.5
40°-50°	293.6	17.2
50°-60°	222.6	13.0
60°-70°	144.5	8.5
70°-80°	71.6	4.2
80°-90°	18.7	1.1
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°	624.8	36.5
0°-40°	959.0	56.1
0°-60°	1475.3	86.3
0°-90°	1710.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1710.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	899	897	885	888	887	85
15°	860	840	799	780	771	242
25°	772	730	670	636	620	356
35°	658	597	520	472	449	412
45°	526	453	366	300	274	406
55°	383	308	215	185	179	342
65°	225	168	126	117	115	223
75°	80	71	64	62	61	90
85°	14	16	17	17	18	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.8	902.8	902.8	902.8	902.8
2.5°	900.8	902.8	894.9	901.8	903.8
5°	898.9	896.9	885.1	888.1	887.1
7.5°	893.0	889.1	869.4	867.5	863.6
10°	885.1	875.3	847.9	841.0	835.1
12.5°	874.3	858.7	825.3	811.6	804.8
15°	859.6	840.0	798.9	780.2	771.4
17.5°	842.0	814.6	771.4	745.9	736.1
20°	821.4	789.1	739.1	709.7	697.9
22.5°	798.9	760.6	704.8	673.4	660.7
25°	772.4	730.3	670.5	636.2	619.5
27.5°	745.9	698.9	634.2	596.0	578.3
30°	719.5	665.6	595.0	553.8	535.2
32.5°	691.0	631.3	558.7	513.6	492.1
35°	657.7	596.9	519.5	472.5	448.9
37.5°	625.4	560.7	481.3	428.4	405.8
40°	595.0	526.4	443.1	385.2	361.7
42.5°	560.7	490.1	404.8	344.1	317.6
45°	526.4	452.9	365.6	299.9	273.5
47.5°	490.1	417.6	324.5	259.8	242.1
50°	457.8	381.3	288.2	229.4	217.6
52.5°	420.5	346.0	250.9	205.8	198.0
55°	383.3	307.8	214.7	185.3	179.4
57.5°	345.0	273.5	186.2	167.6	161.7
60°	304.8	238.2	163.7	149.0	146.1
62.5°	264.7	201.9	144.1	133.3	129.4
65°	225.4	167.6	126.4	116.6	114.7
67.5°	185.3	136.2	108.8	101.9	101.0
70°	148.0	110.8	92.1	88.2	86.3
72.5°	113.7	88.2	77.4	74.5	73.5
75°	80.4	70.6	63.7	61.8	60.8
77.5°	53.9	53.9	51.0	49.0	50.0
80°	37.2	39.2	38.2	38.2	38.2
82.5°	24.5	26.5	27.4	27.4	27.4
85°	13.7	15.7	16.7	16.7	17.6
87.5°	4.9	5.9	6.9	7.8	7.8
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	16.90	18.39	17.27	18.71	19.02	13.14	14.63	13.51	14.95	15.26
	3H	18.21	19.55	18.59	19.88	20.24	14.73	16.06	15.10	16.39	16.75
	4H	18.58	19.84	18.98	20.18	20.56	15.33	16.58	15.73	16.93	17.31
	6H	18.76	19.91	19.17	20.28	20.67	15.80	16.96	16.21	17.32	17.72
	8H	18.79	19.89	19.22	20.28	20.69	15.96	17.06	16.39	17.45	17.85
	12H	18.81	19.86	19.24	20.24	20.67	16.07	17.12	16.50	17.51	17.94
4H	2H	17.01	18.27	17.41	18.61	18.99	13.80	15.06	14.20	15.40	15.78
	3H	18.50	19.54	18.91	19.94	20.34	15.58	16.62	16.00	17.02	17.42
	4H	18.98	19.91	19.41	20.33	20.76	16.30	17.24	16.74	17.65	18.09
	6H	19.26	20.07	19.72	20.52	20.98	16.89	17.70	17.35	18.15	18.61
	8H	19.33	20.09	19.79	20.53	21.00	17.10	17.85	17.56	18.30	18.77
	12H	19.37	20.05	19.85	20.53	21.00	17.25	17.93	17.73	18.41	18.88
8H	4H	19.06	19.82	19.52	20.26	20.73	16.61	17.37	17.08	17.82	18.28
	6H	19.42	20.05	19.92	20.54	21.02	17.32	17.95	17.82	18.44	18.92
	8H	19.54	20.10	20.05	20.61	21.10	17.60	18.16	18.11	18.67	19.16
	12H	19.63	20.12	20.14	20.61	21.18	17.83	18.32	18.34	18.82	19.38
12H	4H	19.05	19.73	19.54	20.21	20.68	16.64	17.32	17.12	17.80	18.27
	6H	19.42	19.99	19.94	20.50	20.99	17.37	17.93	17.89	18.44	18.93
	8H	19.58	20.08	20.09	20.57	21.14	17.71	18.20	18.22	18.70	19.26