

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: P1061512

Luminaire Tested: S125RDRP-S1090D950-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061512
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-S1090D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

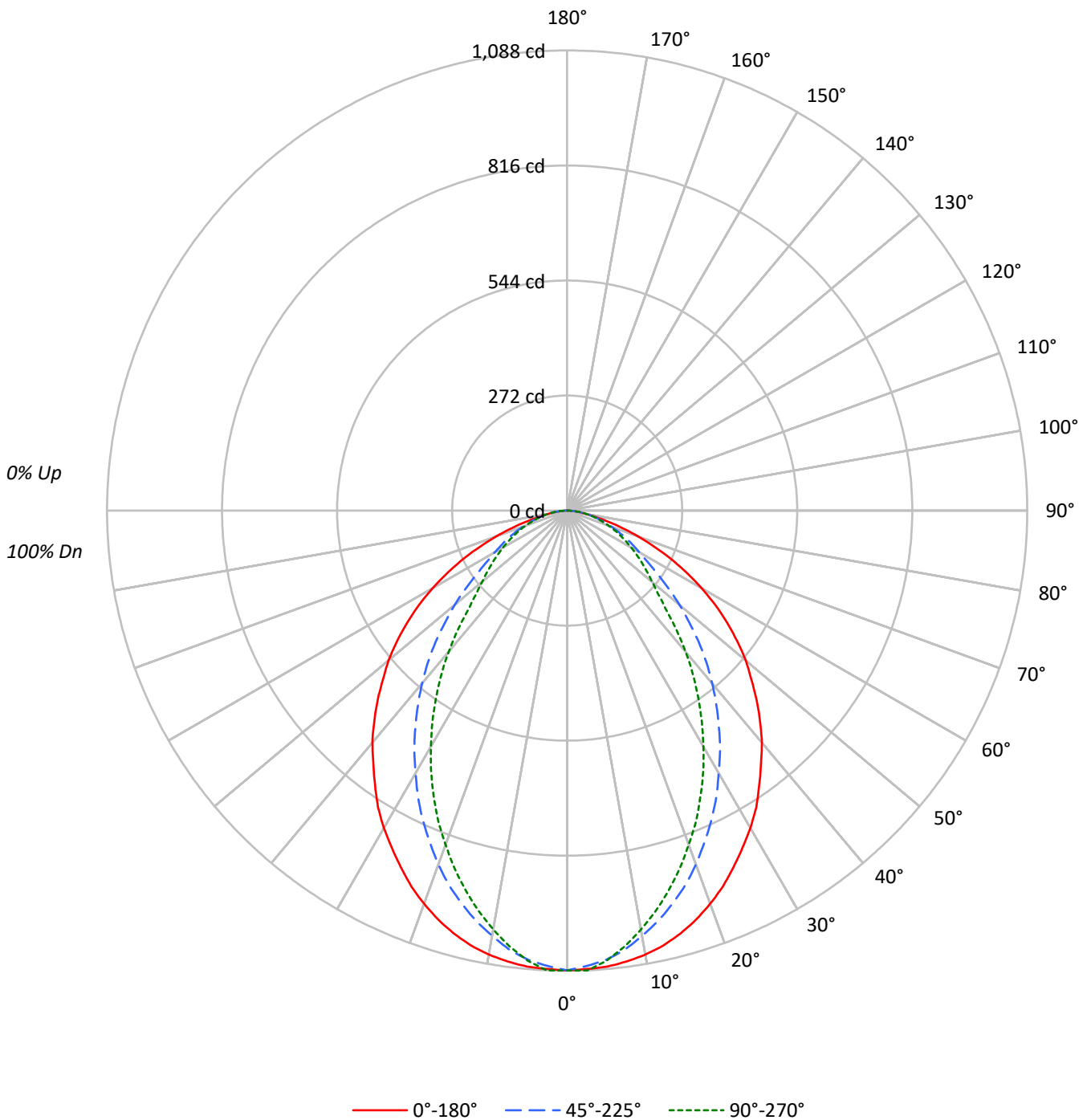
Lumens per Lamp: N/A
Luminaire Lumens: 2059.5 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7486	7486	7486
5°	7482	7367	7384
10°	7452	7139	7031
15°	7379	6858	6622
20°	7248	6522	6158
25°	7067	6134	5667
30°	6888	5696	5124
35°	6658	5258	4544
40°	6440	4796	3915
45°	6172	4287	3206
50°	5905	3717	2807
55°	5541	3103	2593
60°	5055	2714	2422
65°	4423	2481	2250
70°	3587	2235	2092
75°	2575	2040	1947
80°	1780	1824	1824
85°	1303	1588	1675

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6172 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	4.9
10°-20°	273.4	13.3
20°-30°	377.9	18.3
30°-40°	402.5	19.5
40°-50°	353.6	17.2
50°-60°	268.1	13.0
60°-70°	174.1	8.5
70°-80°	86.3	4.2
80°-90°	22.6	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°	752.4	36.5
0°-40°	1154.9	56.1
0°-60°	1776.6	86.3
0°-90°	2059.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1082	1080	1066	1070	1068	103
15°	1035	1012	962	940	929	292
25°	930	879	807	766	746	429
35°	792	719	626	569	541	496
45°	634	545	440	361	329	489
55°	462	371	258	223	216	412
65°	272	202	152	140	138	268
75°	97	85	77	74	73	108
85°	16	19	20	20	21	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.2	1087.2	1087.2	1087.2	1087.2
2.5°	1084.8	1087.2	1077.7	1086.0	1088.4
5°	1082.5	1080.1	1065.9	1069.5	1068.3
7.5°	1075.4	1070.7	1047.1	1044.7	1040.0
10°	1065.9	1054.1	1021.1	1012.8	1005.7
12.5°	1053.0	1034.1	993.9	977.4	969.1
15°	1035.2	1011.6	962.1	939.6	929.0
17.5°	1014.0	980.9	929.0	898.3	886.5
20°	989.2	950.3	890.1	854.6	840.5
22.5°	962.1	916.0	848.7	811.0	795.6
25°	930.2	879.4	807.4	766.1	746.0
27.5°	898.3	841.7	763.7	717.7	696.5
30°	866.4	801.5	716.5	666.9	644.5
32.5°	832.2	760.2	672.9	618.6	592.6
35°	792.1	718.9	625.6	569.0	540.6
37.5°	753.1	675.2	579.6	515.9	488.7
40°	716.5	633.9	533.6	463.9	435.6
42.5°	675.2	590.2	487.5	414.3	382.5
45°	633.9	545.4	440.3	361.2	329.3
47.5°	590.2	502.9	390.7	312.8	291.6
50°	551.3	459.2	347.0	276.2	262.1
52.5°	506.4	416.7	302.2	247.9	238.4
55°	461.6	370.7	258.5	223.1	216.0
57.5°	415.5	329.3	224.3	201.9	194.8
60°	367.1	286.8	197.1	179.4	175.9
62.5°	318.7	243.2	173.5	160.5	155.8
65°	271.5	201.9	152.3	140.5	138.1
67.5°	223.1	164.1	131.0	122.8	121.6
70°	178.2	133.4	111.0	106.2	103.9
72.5°	136.9	106.2	93.3	89.7	88.5
75°	96.8	85.0	76.7	74.4	73.2
77.5°	64.9	64.9	61.4	59.0	60.2
80°	44.9	47.2	46.0	46.0	46.0
82.5°	29.5	31.9	33.1	33.1	33.1
85°	16.5	18.9	20.1	20.1	21.2
87.5°	5.9	7.1	8.3	9.4	9.4
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	17.55	19.04	17.91	19.35	19.67	13.79	15.28	14.15	15.60	15.91
	3H	18.86	20.19	19.24	20.52	20.88	15.37	16.71	15.75	17.04	17.40
	4H	19.23	20.48	19.63	20.83	21.21	15.98	17.23	16.38	17.58	17.96
	6H	19.40	20.56	19.82	20.93	21.32	16.45	17.60	16.86	17.97	18.36
	8H	19.44	20.54	19.87	20.93	21.33	16.61	17.71	17.03	18.10	18.50
	12H	19.45	20.51	19.88	20.89	21.32	16.72	17.77	17.15	18.15	18.58
4H	2H	17.66	18.91	18.06	19.26	19.64	14.45	15.70	14.85	16.05	16.43
	3H	19.15	20.18	19.56	20.58	20.99	16.23	17.27	16.64	17.67	18.07
	4H	19.62	20.55	20.05	20.97	21.41	16.95	17.88	17.38	18.30	18.74
	6H	19.91	20.72	20.36	21.16	21.62	17.54	18.35	18.00	18.79	19.25
	8H	19.98	20.73	20.44	21.18	21.65	17.74	18.50	18.21	18.95	19.41
	12H	20.02	20.69	20.50	21.17	21.64	17.90	18.57	18.38	19.05	19.52
8H	4H	19.70	20.46	20.17	20.91	21.37	17.26	18.02	17.73	18.46	18.93
	6H	20.07	20.69	20.56	21.18	21.66	17.97	18.59	18.46	19.08	19.56
	8H	20.18	20.74	20.70	21.25	21.74	18.25	18.81	18.76	19.32	19.81
	12H	20.27	20.77	20.78	21.26	21.82	18.48	18.97	18.99	19.46	20.03
12H	4H	19.70	20.37	20.18	20.85	21.32	17.29	17.96	17.77	18.44	18.91
	6H	20.07	20.63	20.59	21.14	21.63	18.02	18.58	18.53	19.09	19.58
	8H	20.23	20.73	20.74	21.22	21.78	18.36	18.85	18.87	19.34	19.91