

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: P1061593

Luminaire Tested: S125RDRP-S1270D950-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061593
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-S1270D950-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

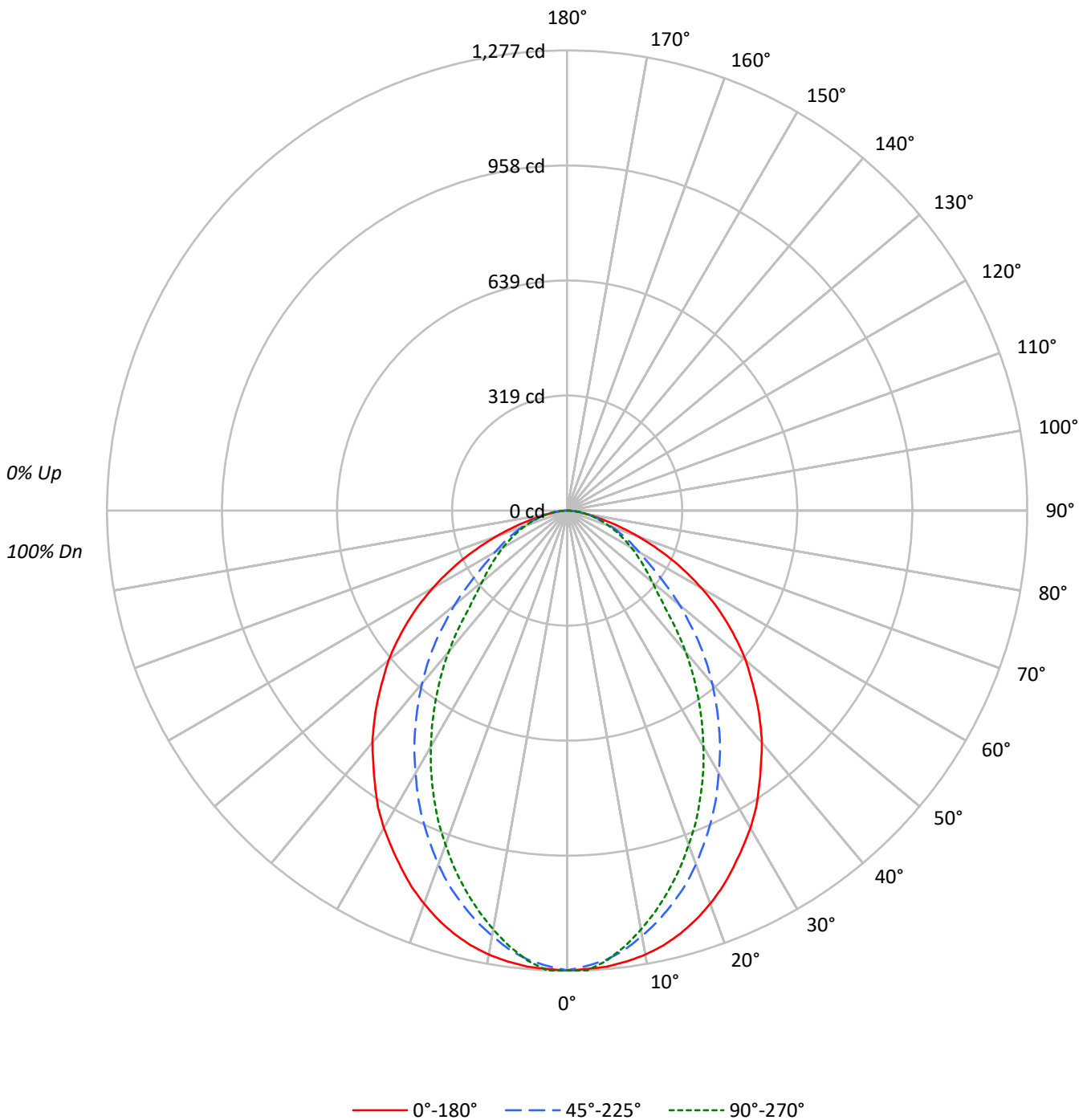
Lumens per Lamp: N/A
Luminaire Lumens: 2417.1 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): 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°	8785	8785	8785
5°	8780	8646	8666
10°	8746	8378	8252
15°	8661	8048	7772
20°	8506	7654	7227
25°	8294	7199	6652
30°	8085	6685	6014
35°	7814	6171	5333
40°	7558	5628	4595
45°	7244	5031	3763
50°	6930	4363	3295
55°	6503	3642	3043
60°	5932	3186	2842
65°	5191	2911	2641
70°	4211	2621	2454
75°	3022	2394	2285
80°	2086	2141	2141
85°	1533	1864	1967

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7244 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	4.9
10°-20°	320.9	13.3
20°-30°	443.5	18.3
30°-40°	472.4	19.5
40°-50°	415.0	17.2
50°-60°	314.7	13.0
60°-70°	204.3	8.5
70°-80°	101.2	4.2
80°-90°	26.5	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°	883.0	36.5
0°-40°	1355.4	56.1
0°-60°	2085.0	86.3
0°-90°	2417.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2417.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1270	1268	1251	1255	1254	121
15°	1215	1187	1129	1103	1090	342
25°	1092	1032	948	899	876	503
35°	930	844	734	668	634	582
45°	744	640	517	424	386	574
55°	542	435	303	262	254	483
65°	319	237	179	165	162	315
75°	114	100	90	87	86	127
85°	19	22	24	24	25	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1275.9	1275.9	1275.9	1275.9	1275.9
2.5°	1273.2	1275.9	1264.8	1274.5	1277.3
5°	1270.4	1267.6	1251.0	1255.1	1253.8
7.5°	1262.1	1256.5	1228.8	1226.0	1220.5
10°	1251.0	1237.1	1198.3	1188.6	1180.3
12.5°	1235.7	1213.6	1166.5	1147.1	1137.4
15°	1215.0	1187.3	1129.1	1102.8	1090.3
17.5°	1190.0	1151.2	1090.3	1054.3	1040.4
20°	1160.9	1115.2	1044.6	1003.0	986.4
22.5°	1129.1	1075.0	996.1	951.7	933.7
25°	1091.7	1032.1	947.6	899.1	875.6
27.5°	1054.3	987.8	896.3	842.3	817.4
30°	1016.9	940.7	840.9	782.7	756.4
32.5°	976.7	892.2	789.7	725.9	695.5
35°	929.6	843.7	734.2	667.7	634.5
37.5°	883.9	792.4	680.2	605.4	573.5
40°	840.9	743.9	626.2	544.4	511.2
42.5°	792.4	692.7	572.2	486.3	448.9
45°	743.9	640.0	516.7	423.9	386.5
47.5°	692.7	590.2	458.6	367.1	342.2
50°	647.0	538.9	407.3	324.2	307.6
52.5°	594.3	489.0	354.7	290.9	279.8
55°	541.7	435.0	303.4	261.8	253.5
57.5°	487.6	386.5	263.2	236.9	228.6
60°	430.8	336.6	231.4	210.6	206.4
62.5°	374.0	285.4	203.6	188.4	182.9
65°	318.6	236.9	178.7	164.9	162.1
67.5°	261.8	192.6	153.8	144.1	142.7
70°	209.2	156.5	130.2	124.7	121.9
72.5°	160.7	124.7	109.4	105.3	103.9
75°	113.6	99.7	90.0	87.3	85.9
77.5°	76.2	76.2	72.0	69.3	70.7
80°	52.6	55.4	54.0	54.0	54.0
82.5°	34.6	37.4	38.8	38.8	38.8
85°	19.4	22.2	23.6	23.6	24.9
87.5°	6.9	8.3	9.7	11.1	11.1
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	18.10	19.59	18.47	19.91	20.22	14.34	15.84	14.71	16.15	16.46
	3H	19.41	20.75	19.79	21.08	21.44	15.93	17.26	16.31	17.59	17.95
	4H	19.78	21.04	20.18	21.39	21.76	16.53	17.78	16.93	18.13	18.51
	6H	19.96	21.12	20.37	21.48	21.87	17.00	18.16	17.42	18.53	18.92
	8H	20.00	21.10	20.42	21.49	21.89	17.16	18.26	17.59	18.65	19.05
	12H	20.01	21.06	20.44	21.44	21.87	17.27	18.33	17.71	18.71	19.14
4H	2H	18.21	19.47	18.61	19.82	20.20	15.01	16.26	15.41	16.61	16.99
	3H	19.70	20.74	20.11	21.14	21.54	16.79	17.83	17.20	18.23	18.63
	4H	20.18	21.11	20.61	21.53	21.97	17.51	18.44	17.94	18.86	19.29
	6H	20.46	21.27	20.92	21.72	22.18	18.10	18.91	18.55	19.35	19.81
	8H	20.53	21.29	21.00	21.73	22.20	18.30	19.06	18.76	19.50	19.97
	12H	20.57	21.25	21.05	21.73	22.20	18.45	19.13	18.94	19.61	20.08
8H	4H	20.26	21.02	20.72	21.46	21.93	17.82	18.57	18.28	19.02	19.49
	6H	20.62	21.25	21.12	21.74	22.22	18.52	19.15	19.02	19.64	20.12
	8H	20.74	21.30	21.25	21.81	22.30	18.80	19.36	19.32	19.87	20.36
	12H	20.83	21.32	21.34	21.81	22.38	19.03	19.53	19.54	20.02	20.59
12H	4H	20.25	20.93	20.74	21.41	21.88	17.84	18.52	18.33	19.00	19.47
	6H	20.63	21.19	21.14	21.70	22.19	18.57	19.14	19.09	19.65	20.13
	8H	20.79	21.28	21.30	21.77	22.34	18.91	19.41	19.42	19.90	20.46