

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: P1175360

Luminaire Tested: S125RDRP-S1270D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D927-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

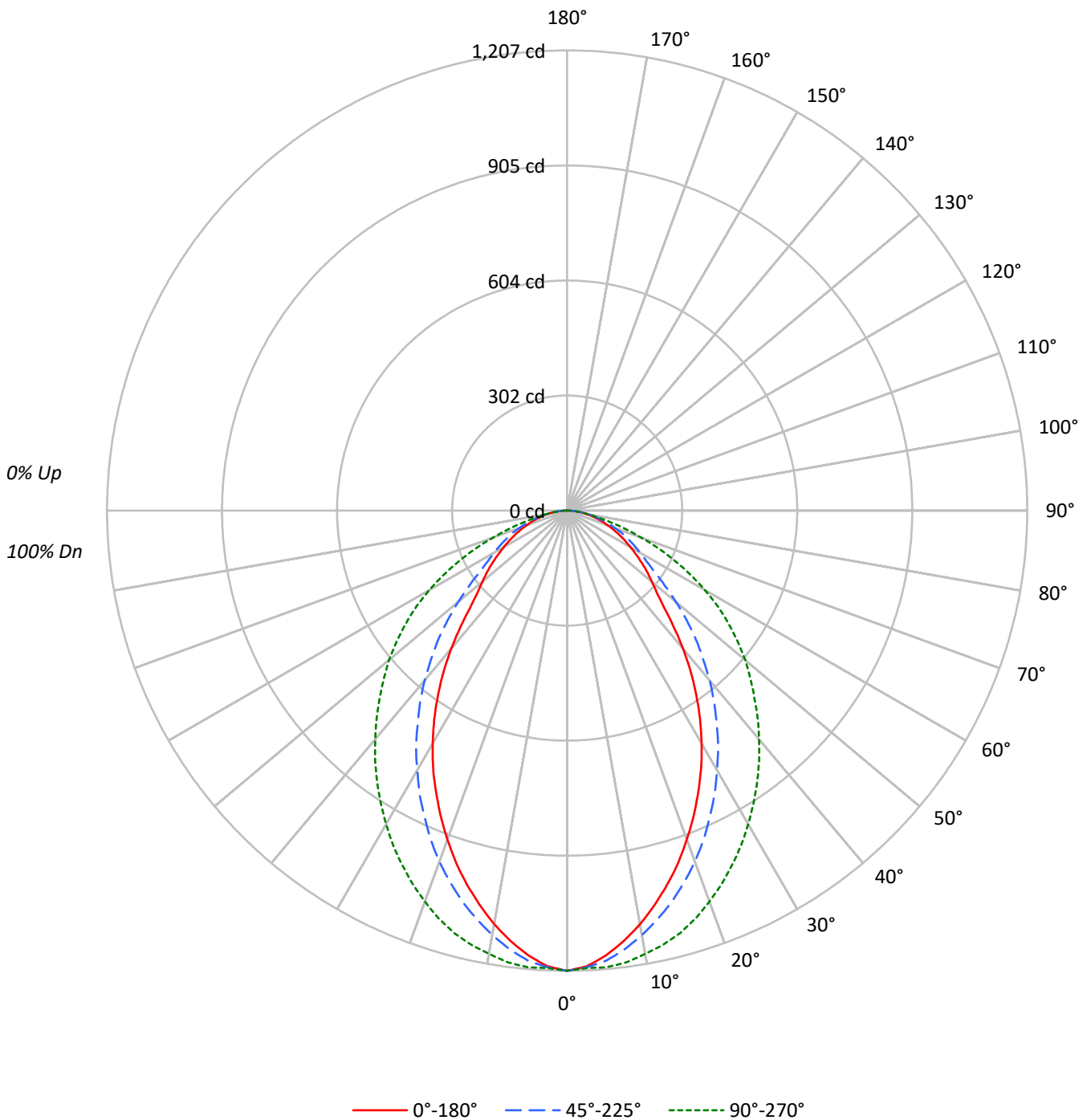
Lumens per Lamp: N/A
Luminaire Lumens: 2274.2 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8312	8312	8312
5°	8095	8187	8308
10°	7702	7902	8253
15°	7239	7567	8174
20°	6728	7178	7997
25°	6182	6726	7785
30°	5605	6249	7552
35°	4962	5745	7304
40°	4255	5222	7037
45°	3493	4650	6765
50°	3106	3995	6531
55°	2867	3346	6200
60°	2638	3047	5744
65°	2454	2872	5075
70°	2289	2681	4147
75°	2155	2482	3107
80°	2030	2276	2236
85°	1864	2267	1864

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6765 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	4.9
10°-20°	301.2	13.2
20°-30°	414.4	18.2
30°-40°	439.5	19.3
40°-50°	384.7	16.9
50°-60°	295.2	13.0
60°-70°	196.6	8.6
70°-80°	100.8	4.4
80°-90°	29.9	1.3
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°	827.4	36.4
0°-40°	1266.9	55.7
0°-60°	1946.8	85.6
0°-90°	2274.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1171	1187	1185	1193	1202	110
15°	1016	1039	1062	1112	1147	285
25°	814	841	885	960	1025	374
35°	590	618	684	784	869	368
45°	359	388	478	596	695	283
55°	239	244	279	414	516	214
65°	151	152	176	232	312	150
75°	81	86	93	98	117	86
85°	24	27	29	28	24	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.2	1207.2	1207.2	1207.2	1207.2
2.5°	1195.9	1208.2	1199.0	1200.0	1201.0
5°	1171.3	1186.7	1184.6	1192.8	1202.0
7.5°	1138.5	1154.9	1160.0	1180.5	1194.9
10°	1101.6	1120.1	1130.3	1161.0	1180.5
12.5°	1059.6	1081.1	1097.5	1137.5	1166.2
15°	1015.5	1039.1	1061.6	1111.9	1146.7
17.5°	968.4	992.0	1021.7	1079.1	1121.1
20°	918.2	943.8	979.7	1041.1	1091.4
22.5°	866.9	893.6	934.6	1002.2	1059.6
25°	813.7	841.3	885.4	960.2	1024.8
27.5°	761.4	787.0	838.2	918.2	988.9
30°	705.0	731.7	786.0	874.1	949.9
32.5°	648.7	675.3	737.8	830.0	910.0
35°	590.3	617.9	683.5	783.9	869.0
37.5°	531.8	560.5	633.3	736.8	827.0
40°	473.4	504.2	581.0	689.7	782.9
42.5°	414.0	446.8	527.7	643.5	739.9
45°	358.7	388.4	477.5	596.4	694.8
47.5°	318.7	336.1	424.2	548.2	651.7
50°	290.0	298.2	373.0	502.1	609.7
52.5°	264.4	269.5	322.8	459.1	563.6
55°	238.8	243.9	278.7	414.0	516.5
57.5°	214.2	217.2	245.9	368.9	469.3
60°	191.6	193.7	221.3	323.8	417.1
62.5°	171.1	172.2	197.8	277.7	364.8
65°	150.6	151.7	176.3	231.6	311.5
67.5°	132.2	132.2	155.8	189.6	260.3
70°	113.7	113.7	133.2	153.7	206.0
72.5°	97.4	99.4	112.7	124.0	160.9
75°	81.0	86.1	93.3	98.4	116.8
77.5°	65.6	71.7	74.8	76.9	77.9
80°	51.2	55.3	57.4	58.4	56.4
82.5°	37.9	41.0	42.0	42.0	38.9
85°	23.6	26.6	28.7	27.7	23.6
87.5°	11.3	15.4	16.4	14.3	11.3
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	13.97	15.47	14.34	15.78	16.10	18.00	19.50	18.36	19.81	20.12
	3H	15.56	16.90	15.94	17.23	17.59	19.39	20.73	19.76	21.06	21.42
	4H	16.20	17.46	16.60	17.81	18.19	19.79	21.05	20.19	21.40	21.78
	6H	16.71	17.88	17.12	18.24	18.63	20.00	21.16	20.41	21.53	21.92
	8H	16.89	18.00	17.32	18.39	18.79	20.05	21.16	20.48	21.55	21.95
	12H	17.02	18.08	17.45	18.46	18.89	20.09	21.15	20.52	21.53	21.96
4H	2H	14.74	16.00	15.14	16.35	16.73	18.13	19.39	18.53	19.74	20.12
	3H	16.52	17.57	16.93	17.97	18.37	19.70	20.74	20.11	21.14	21.55
	4H	17.29	18.23	17.73	18.65	19.09	20.21	21.15	20.64	21.56	22.00
	6H	17.93	18.75	18.39	19.19	19.65	20.53	21.35	20.99	21.80	22.26
	8H	18.16	18.93	18.62	19.37	19.84	20.63	21.40	21.10	21.84	22.31
	12H	18.33	19.02	18.82	19.50	19.97	20.71	21.39	21.19	21.87	22.34
8H	4H	17.68	18.44	18.14	18.89	19.35	20.31	21.07	20.77	21.52	21.99
	6H	18.45	19.09	18.95	19.58	20.05	20.73	21.36	21.22	21.85	22.33
	8H	18.77	19.34	19.28	19.85	20.34	20.89	21.45	21.40	21.96	22.45
	12H	19.03	19.53	19.54	20.02	20.59	21.02	21.53	21.53	22.02	22.58
12H	4H	17.72	18.40	18.20	18.88	19.35	20.31	20.99	20.79	21.47	21.94
	6H	18.53	19.10	19.04	19.61	20.09	20.74	21.31	21.25	21.82	22.31
	8H	18.91	19.41	19.42	19.91	20.47	20.95	21.45	21.46	21.94	22.51