

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: P1175397

Luminaire Tested: S125RDRP-H1090D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175397
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-H1090D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

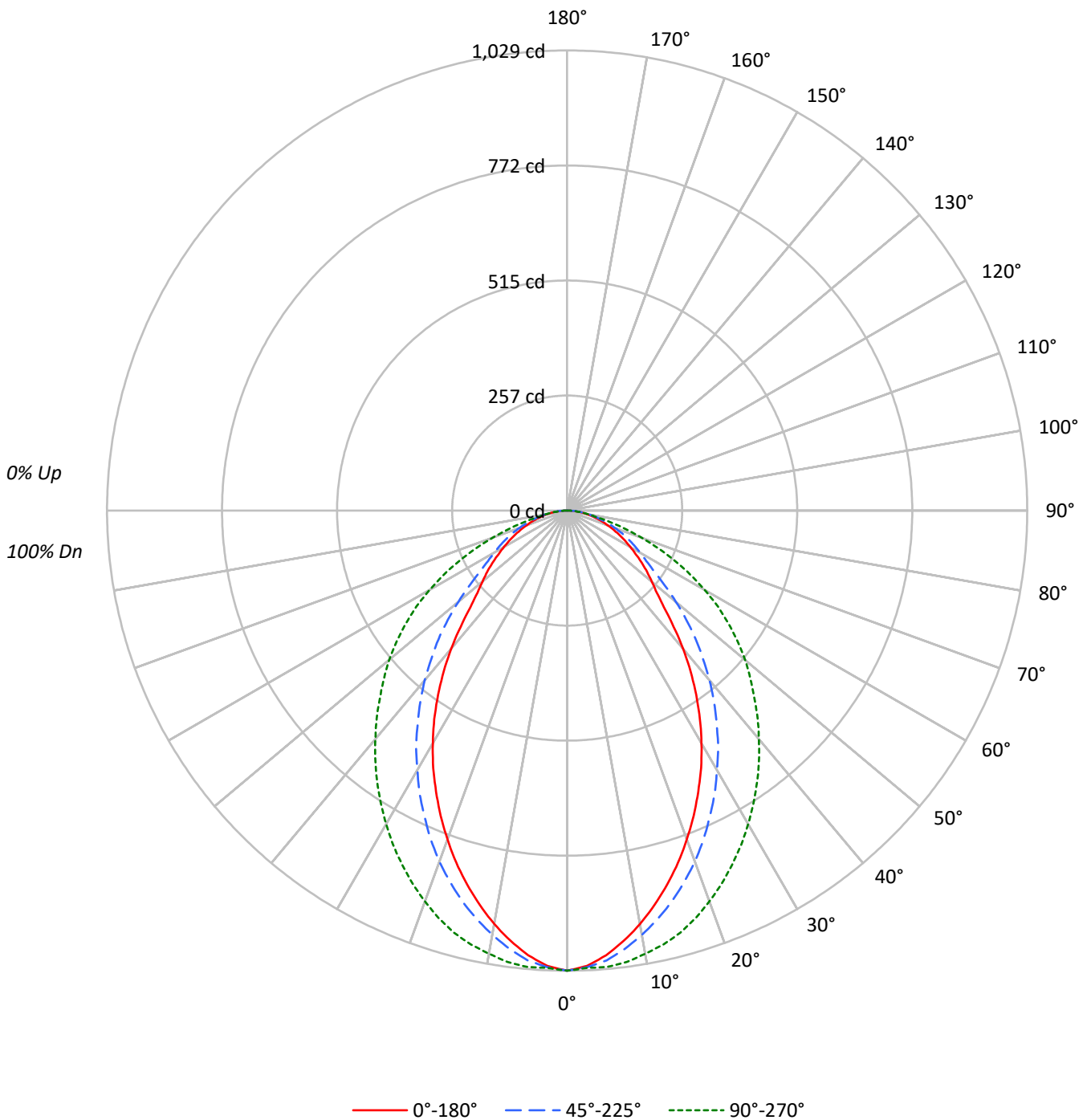
Lumens per Lamp: N/A
Luminaire Lumens: 1938.2 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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	50	30	10	50	30	10	50	30	10	50	30	10													
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100														
	1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86													
	2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74													
	3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64												
	4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56												
	5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50												
	6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44												
	7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40												
	8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36												
	9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33												
	10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7084	7084	7084
5°	6899	6978	7080
10°	6564	6735	7034
15°	6169	6450	6966
20°	5733	6117	6815
25°	5268	5733	6634
30°	4777	5325	6437
35°	4228	4896	6225
40°	3627	4451	5997
45°	2977	3963	5765
50°	2648	3405	5566
55°	2443	2851	5284
60°	2249	2597	4894
65°	2092	2447	4325
70°	1951	2285	3533
75°	1836	2115	2650
80°	1733	1939	1903
85°	1588	1935	1588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5765 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	4.9
10°-20°	256.7	13.2
20°-30°	353.2	18.2
30°-40°	374.6	19.3
40°-50°	327.9	16.9
50°-60°	251.6	13.0
60°-70°	167.6	8.6
70°-80°	85.9	4.4
80°-90°	25.5	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°	705.1	36.4
0°-40°	1079.7	55.7
0°-60°	1659.1	85.6
0°-90°	1938.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	998	1011	1010	1016	1024	93
15°	866	886	905	948	977	243
25°	693	717	755	818	873	318
35°	503	527	582	668	741	313
45°	306	331	407	508	592	241
55°	204	208	238	353	440	182
65°	128	129	150	197	266	128
75°	69	73	80	84	100	73
85°	20	23	24	24	20	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1028.8	1028.8	1028.8	1028.8	1028.8
2.5°	1019.2	1029.6	1021.8	1022.7	1023.5
5°	998.2	1011.3	1009.6	1016.5	1024.4
7.5°	970.3	984.2	988.6	1006.1	1018.3
10°	938.8	954.5	963.3	989.5	1006.1
12.5°	903.0	921.4	935.3	969.4	993.8
15°	865.5	885.5	904.8	947.6	977.2
17.5°	825.3	845.4	870.7	919.6	955.4
20°	782.5	804.3	834.9	887.3	930.1
22.5°	738.8	761.5	796.5	854.1	903.0
25°	693.4	717.0	754.6	818.3	873.3
27.5°	648.9	670.7	714.4	782.5	842.8
30°	600.8	623.6	669.8	744.9	809.6
32.5°	552.8	575.5	628.8	707.4	775.5
35°	503.0	526.6	582.5	668.1	740.6
37.5°	453.3	477.7	539.7	627.9	704.8
40°	403.5	429.7	495.2	587.7	667.2
42.5°	352.8	380.8	449.8	548.4	630.5
45°	305.7	331.0	407.0	508.3	592.1
47.5°	271.6	286.4	361.6	467.2	555.4
50°	247.2	254.1	317.9	427.9	519.6
52.5°	225.3	229.7	275.1	391.2	480.3
55°	203.5	207.9	237.5	352.8	440.2
57.5°	182.5	185.1	209.6	314.4	400.0
60°	163.3	165.1	188.6	276.0	355.4
62.5°	145.8	146.7	168.6	236.7	310.9
65°	128.4	129.3	150.2	197.4	265.5
67.5°	112.7	112.7	132.7	161.6	221.8
70°	96.9	96.9	113.5	131.0	175.5
72.5°	83.0	84.7	96.1	105.7	137.1
75°	69.0	73.4	79.5	83.8	99.6
77.5°	55.9	61.1	63.8	65.5	66.4
80°	43.7	47.2	48.9	49.8	48.0
82.5°	32.3	34.9	35.8	35.8	33.2
85°	20.1	22.7	24.5	23.6	20.1
87.5°	9.6	13.1	14.0	12.2	9.6
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	13.42	14.91	13.78	15.23	15.54	17.44	18.94	17.81	19.25	19.57
	3H	15.00	16.35	15.38	16.68	17.04	18.83	20.17	19.21	20.50	20.86
	4H	15.65	16.91	16.05	17.26	17.64	19.24	20.50	19.64	20.84	21.22
	6H	16.16	17.32	16.57	17.69	18.08	19.44	20.61	19.85	20.97	21.36
	8H	16.34	17.45	16.76	17.84	18.24	19.50	20.61	19.93	21.00	21.40
	12H	16.46	17.52	16.89	17.91	18.34	19.53	20.59	19.96	20.97	21.40
4H	2H	14.19	15.45	14.59	15.79	16.17	17.57	18.83	17.97	19.18	19.56
	3H	15.97	17.01	16.38	17.41	17.82	19.14	20.19	19.55	20.59	20.99
	4H	16.74	17.68	17.17	18.09	18.53	19.65	20.59	20.08	21.01	21.45
	6H	17.38	18.20	17.83	18.64	19.10	19.98	20.80	20.44	21.24	21.70
	8H	17.61	18.37	18.07	18.82	19.28	20.08	20.84	20.54	21.29	21.75
	12H	17.78	18.46	18.26	18.94	19.41	20.15	20.83	20.63	21.31	21.78
8H	4H	17.12	17.89	17.58	18.33	18.80	19.75	20.52	20.22	20.96	21.43
	6H	17.90	18.53	18.40	19.02	19.50	20.17	20.80	20.67	21.29	21.77
	8H	18.21	18.78	18.73	19.29	19.78	20.33	20.90	20.84	21.41	21.90
	12H	18.48	18.98	18.99	19.47	20.04	20.47	20.97	20.98	21.46	22.03
12H	4H	17.16	17.84	17.64	18.32	18.79	19.75	20.43	20.23	20.91	21.38
	6H	17.97	18.54	18.49	19.05	19.54	20.18	20.75	20.70	21.26	21.75
	8H	18.36	18.86	18.87	19.35	19.92	20.39	20.89	20.90	21.39	21.95