

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: P1175351

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

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175351
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-S1090D927-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

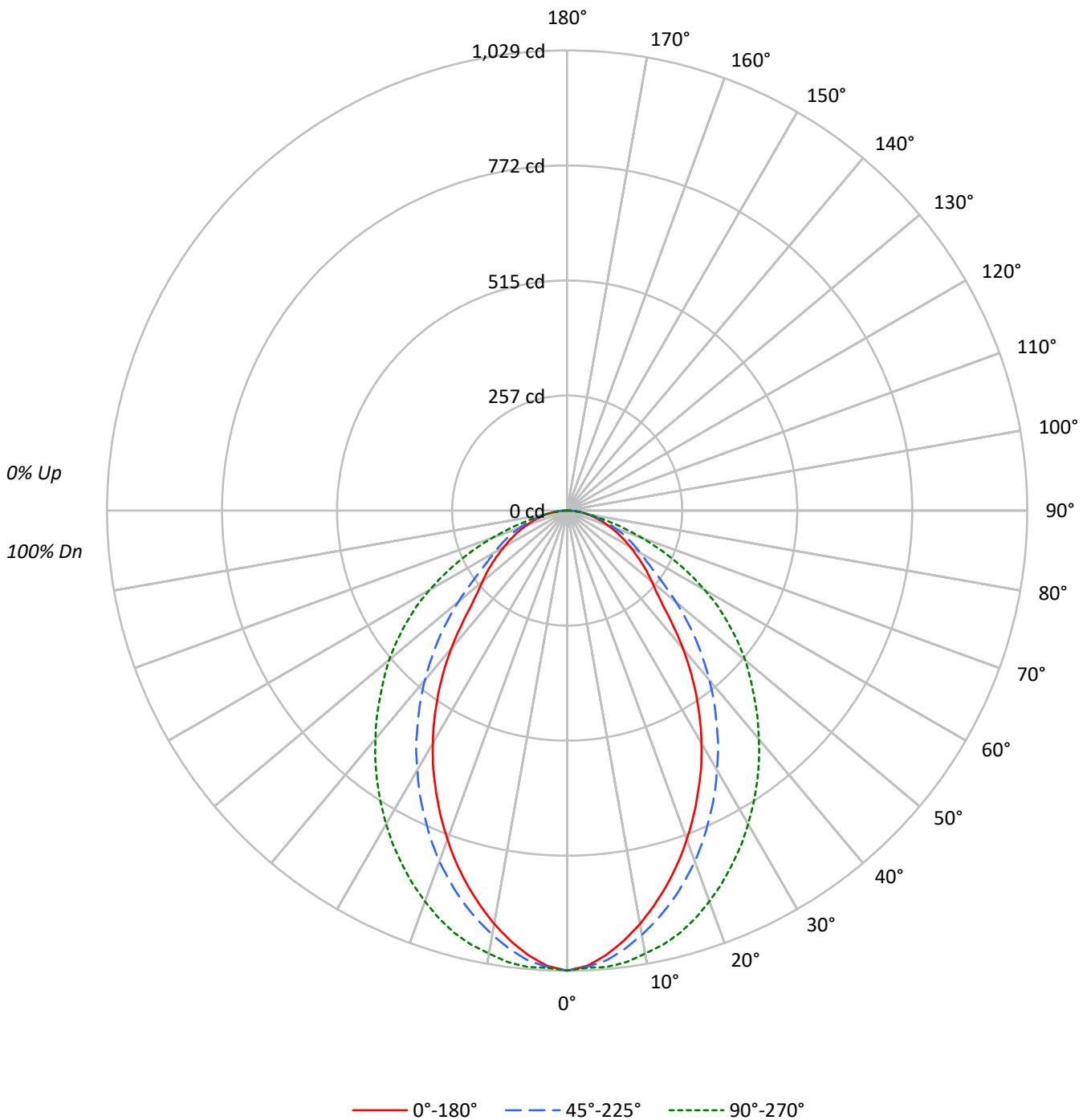
Lumens per Lamp: N/A
Luminaire Lumens: 1937.8 lumens
Efficiency: N/A
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	7082	7082	7082
5°	6898	6977	7079
10°	6563	6733	7033
15°	6168	6448	6965
20°	5733	6117	6813
25°	5267	5731	6634
30°	4776	5324	6435
35°	4227	4895	6223
40°	3626	4450	5996
45°	2976	3962	5764
50°	2647	3404	5565
55°	2442	2851	5283
60°	2249	2597	4894
65°	2092	2447	4324
70°	1951	2285	3533
75°	1836	2115	2647
80°	1733	1939	1903
85°	1588	1928	1588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5764 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	4.9
10°-20°	256.7	13.2
20°-30°	353.1	18.2
30°-40°	374.5	19.3
40°-50°	327.8	16.9
50°-60°	251.5	13.0
60°-70°	167.5	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°	705.0	36.4
0°-40°	1079.5	55.7
0°-60°	1658.8	85.6
0°-90°	1937.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1937.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	998	1011	1009	1016	1024	93
15°	865	885	905	947	977	243
25°	693	717	754	818	873	318
35°	503	526	582	668	740	313
45°	306	331	407	508	592	241
55°	203	208	238	353	440	182
65°	128	129	150	197	265	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°	1028.6	1028.6	1028.6	1028.6	1028.6
2.5°	1019.0	1029.5	1021.6	1022.5	1023.4
5°	998.0	1011.1	1009.4	1016.4	1024.2
7.5°	970.1	984.1	988.4	1005.9	1018.1
10°	938.7	954.4	963.1	989.3	1005.9
12.5°	902.9	921.2	935.2	969.2	993.7
15°	865.3	885.4	904.6	947.4	977.1
17.5°	825.1	845.2	870.6	919.4	955.2
20°	782.4	804.2	834.8	887.1	929.9
22.5°	738.7	761.4	796.3	854.0	902.9
25°	693.3	716.9	754.4	818.2	873.2
27.5°	648.8	670.6	714.3	782.4	842.6
30°	600.7	623.4	669.7	744.8	809.4
32.5°	552.7	575.4	628.7	707.3	775.4
35°	502.9	526.5	582.4	668.0	740.4
37.5°	453.2	477.6	539.6	627.8	704.6
40°	403.4	429.6	495.1	587.6	667.1
42.5°	352.8	380.7	449.7	548.4	630.4
45°	305.6	330.9	406.9	508.2	592.0
47.5°	271.6	286.4	361.5	467.1	555.3
50°	247.1	254.1	317.8	427.9	519.5
52.5°	225.3	229.6	275.0	391.2	480.2
55°	203.4	207.8	237.5	352.8	440.1
57.5°	182.5	185.1	209.6	314.3	399.9
60°	163.3	165.0	188.6	275.9	355.4
62.5°	145.8	146.7	168.5	236.6	310.8
65°	128.4	129.2	150.2	197.3	265.4
67.5°	112.6	112.6	132.7	161.5	221.8
70°	96.9	96.9	113.5	131.0	175.5
72.5°	83.0	84.7	96.0	105.7	137.1
75°	69.0	73.3	79.5	83.8	99.5
77.5°	55.9	61.1	63.7	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	24.4	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	14.92	13.78	15.23	15.54	17.44	18.94	17.81	19.25	19.57
	3H	15.00	16.35	15.38	16.67	17.04	18.83	20.17	19.21	20.50	20.86
	4H	15.65	16.91	16.05	17.26	17.63	19.23	20.49	19.63	20.84	21.22
	6H	16.16	17.32	16.57	17.69	18.08	19.44	20.60	19.85	20.97	21.36
	8H	16.34	17.45	16.76	17.83	18.24	19.50	20.61	19.92	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	15.80	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	20.43	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	17.88	17.58	18.33	18.80	19.75	20.52	20.21	20.96	21.43
	6H	17.90	18.53	18.39	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	18.47	18.98	18.99	19.47	20.03	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	19.91	20.39	20.89	20.90	21.39	21.95