

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: P1061448

Luminaire Tested: S125RDRP-S1090D835-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1090D835-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

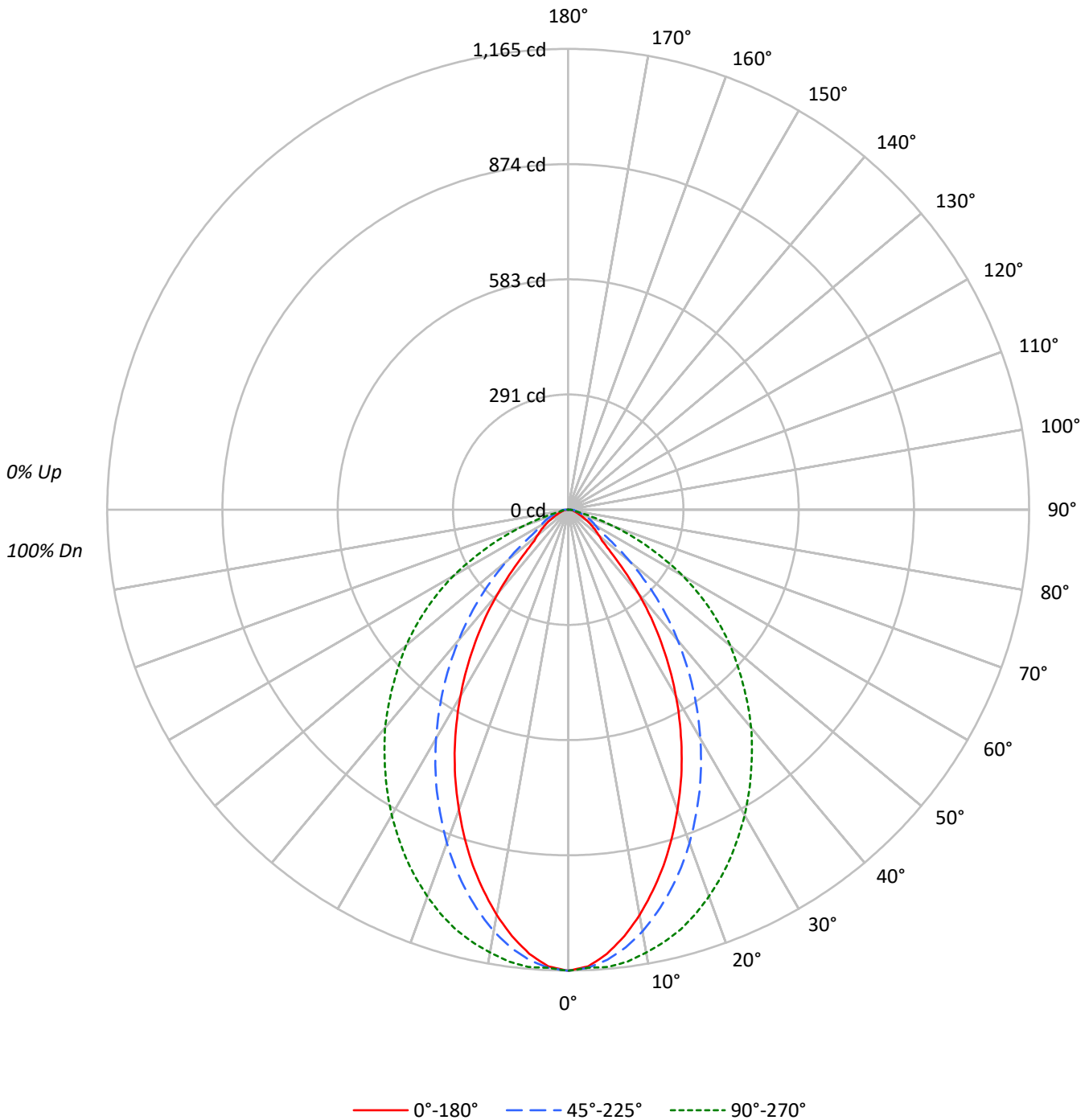
Lumens per Lamp: N/A
Luminaire Lumens: 1688.0 lumens
Efficiency: N/A
Efficacy: 48.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79					79			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62					62			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8024	8024	8024
5°	7789	7892	8020
10°	7273	7568	7949
15°	6638	7106	7830
20°	5917	6569	7622
25°	5156	5965	7376
30°	4332	5307	7089
35°	3445	4611	6776
40°	2482	3874	6467
45°	1471	3075	6090
50°	1088	2188	5731
55°	922	1353	5248
60°	750	1092	4621
65°	585	1008	3653
70°	499	872	2444
75°	460	758	990
80°	492	785	686
85°	585	1177	782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6090 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	6.4
10°-20°	282.1	16.7
20°-30°	368.7	21.8
30°-40°	359.2	21.3
40°-50°	269.4	16.0
50°-60°	168.9	10.0
60°-70°	87.9	5.2
70°-80°	31.8	1.9
80°-90°	12.6	0.7
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°	758.2	44.9
0°-40°	1117.4	66.2
0°-60°	1555.7	92.2
0°-90°	1688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1127	1142	1142	1150	1160	105
15°	931	959	997	1059	1098	260
25°	679	716	785	892	971	310
35°	410	453	549	695	806	255
45°	151	196	316	488	625	127
55°	77	80	113	295	437	68
65°	36	38	62	119	224	37
75°	17	24	28	30	37	19
85°	7	12	15	14	10	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1165.4	1165.4	1165.4	1165.4	1165.4
2.5°	1155.5	1166.6	1159.2	1159.2	1159.2
5°	1127.0	1141.8	1141.8	1150.5	1160.4
7.5°	1087.4	1104.7	1115.8	1136.9	1151.8
10°	1040.3	1061.3	1082.4	1117.1	1136.9
12.5°	987.0	1011.8	1041.5	1089.8	1119.6
15°	931.3	958.6	996.9	1058.9	1098.5
17.5°	870.6	902.8	948.6	1023.0	1071.3
20°	807.5	839.7	896.6	980.8	1040.3
22.5°	744.3	779.0	840.9	936.3	1006.9
25°	678.7	715.8	785.2	891.7	970.9
27.5°	611.8	650.2	727.0	845.9	931.3
30°	544.9	584.5	667.5	796.3	891.7
32.5°	478.0	520.1	608.1	745.5	849.6
35°	409.9	453.3	548.6	694.8	806.2
37.5°	344.3	387.6	489.2	642.8	762.9
40°	276.2	323.2	431.0	590.7	719.5
42.5°	209.3	257.6	372.8	538.7	672.5
45°	151.1	195.7	315.8	487.9	625.4
47.5°	116.4	141.2	257.6	435.9	579.6
50°	101.6	109.0	204.3	387.6	535.0
52.5°	87.9	92.9	153.6	343.0	486.7
55°	76.8	80.5	112.7	294.7	437.2
57.5°	64.4	69.4	89.2	247.7	386.4
60°	54.5	57.0	79.3	204.3	335.6
62.5°	44.6	47.1	70.6	161.0	278.6
65°	35.9	38.4	61.9	118.9	224.2
67.5°	29.7	31.0	52.0	84.2	172.1
70°	24.8	26.0	43.3	58.2	121.4
72.5°	21.1	24.8	34.7	42.1	76.8
75°	17.3	23.5	28.5	29.7	37.2
77.5°	14.9	22.3	23.5	23.5	21.1
80°	12.4	18.6	19.8	18.6	17.3
82.5°	9.9	14.9	16.1	16.1	13.6
85°	7.4	12.4	14.9	13.6	9.9
87.5°	5.0	11.1	12.4	11.1	7.4
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	7.16	8.51	7.52	8.82	9.14	16.77	18.12	17.13	18.43	18.75
	3H	8.01	9.21	8.39	9.54	9.91	17.61	18.81	17.99	19.14	19.50
	4H	8.44	9.56	8.84	9.91	10.29	17.68	18.80	18.08	19.15	19.53
	6H	8.87	9.90	9.28	10.26	10.66	17.66	18.69	18.08	19.06	19.46
	8H	9.04	10.02	9.47	10.41	10.82	17.65	18.63	18.08	19.02	19.42
	12H	9.21	10.14	9.64	10.52	10.95	17.64	18.57	18.07	18.95	19.38
4H	2H	8.12	9.24	8.52	9.59	9.97	16.63	17.75	17.03	18.10	18.48
	3H	9.17	10.09	9.58	10.49	10.89	17.54	18.46	17.95	18.86	19.26
	4H	9.73	10.55	10.17	10.97	11.41	17.64	18.46	18.08	18.88	19.32
	6H	10.33	11.04	10.79	11.49	11.95	17.67	18.38	18.13	18.82	19.29
	8H	10.57	11.23	11.04	11.68	12.15	17.67	18.33	18.14	18.78	19.25
	12H	10.80	11.38	11.28	11.86	12.34	17.68	18.27	18.17	18.75	19.22
8H	4H	10.20	10.86	10.67	11.31	11.78	17.57	18.23	18.03	18.67	19.14
	6H	11.02	11.56	11.52	12.05	12.53	17.62	18.16	18.12	18.66	19.14
	8H	11.40	11.88	11.92	12.40	12.89	17.65	18.14	18.17	18.65	19.14
	12H	11.79	12.22	12.30	12.71	13.28	17.72	18.15	18.23	18.64	19.21
12H	4H	10.25	10.84	10.74	11.32	11.79	17.53	18.12	18.02	18.60	19.07
	6H	11.14	11.63	11.66	12.14	12.63	17.59	18.07	18.11	18.59	19.08
	8H	11.63	12.06	12.14	12.55	13.12	17.66	18.09	18.17	18.58	19.15