

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: P1061855

Luminaire Tested: S125RDRP-H1090D835-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H1090D835-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

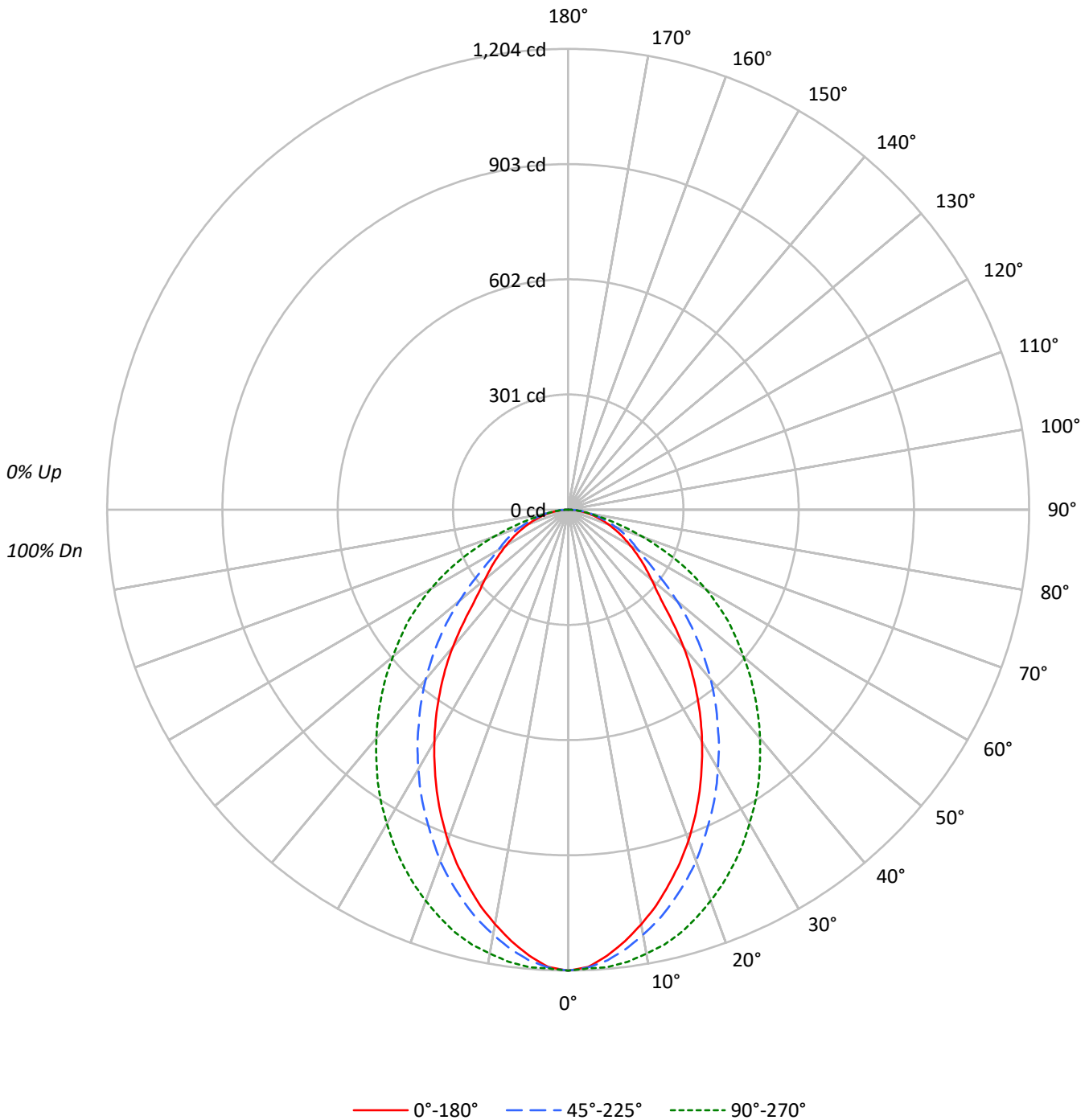
Lumens per Lamp: N/A
Luminaire Lumens: 2257.5 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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	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	74	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	67	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	48	59	52	47	58	52	47	56	51	46					44				
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42					40				
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38					36				
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35					33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8292	8292	8292
5°	8082	8165	8290
10°	7688	7881	8235
15°	7229	7547	8147
20°	6734	7158	7969
25°	6170	6699	7769
30°	5557	6217	7527
35°	4915	5713	7291
40°	4217	5201	7007
45°	3444	4627	6713
50°	3054	3969	6404
55°	2802	3293	6138
60°	2585	2915	5716
65°	2411	2802	5096
70°	2253	2663	4165
75°	2080	2495	3073
80°	1955	2335	2240
85°	1809	2283	1904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6713 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	4.9
10°-20°	300.2	13.3
20°-30°	412.6	18.3
30°-40°	437.3	19.4
40°-50°	381.7	16.9
50°-60°	290.0	12.8
60°-70°	194.3	8.6
70°-80°	100.2	4.4
80°-90°	30.0	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°	824.2	36.5
0°-40°	1261.4	55.9
0°-60°	1933.1	85.6
0°-90°	2257.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1169	1181	1181	1190	1199	109
15°	1014	1033	1059	1106	1143	285
25°	812	837	882	955	1023	372
35°	585	618	680	776	867	365
45°	354	389	475	588	689	279
55°	233	241	274	403	511	209
65°	148	152	172	230	313	147
75°	78	83	94	100	116	84
85°	23	29	29	26	24	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.3	1204.3	1204.3	1204.3	1204.3
2.5°	1195.8	1204.3	1197.0	1197.0	1199.4
5°	1169.4	1181.4	1181.4	1189.8	1199.4
7.5°	1136.9	1150.1	1157.3	1176.6	1191.0
10°	1099.6	1114.0	1127.3	1156.1	1177.8
12.5°	1059.9	1075.5	1096.0	1133.3	1163.4
15°	1014.2	1033.4	1058.7	1105.6	1142.9
17.5°	968.5	987.7	1019.0	1074.3	1116.4
20°	919.1	939.6	976.9	1037.0	1087.6
22.5°	866.2	889.1	928.8	997.3	1056.3
25°	812.1	837.3	881.8	955.2	1022.6
27.5°	755.5	785.6	833.7	911.9	986.5
30°	699.0	729.1	782.0	867.4	946.8
32.5°	642.4	674.9	732.7	822.9	908.3
35°	584.7	618.4	679.7	776.0	867.4
37.5°	528.1	561.8	630.4	730.3	822.9
40°	469.2	504.1	578.7	683.3	779.6
42.5°	409.0	446.3	526.9	635.2	735.1
45°	353.7	388.6	475.2	588.3	689.4
47.5°	312.8	335.7	423.5	540.2	644.8
50°	285.1	297.2	370.5	493.3	597.9
52.5°	257.5	267.1	321.2	445.1	553.4
55°	233.4	240.6	274.3	403.0	511.3
57.5°	209.3	216.5	238.2	360.9	462.0
60°	187.7	193.7	211.7	316.4	415.1
62.5°	167.2	172.0	191.3	274.3	364.5
65°	148.0	151.6	172.0	229.8	312.8
67.5°	128.7	132.3	152.8	187.7	257.5
70°	111.9	113.1	132.3	152.8	206.9
72.5°	95.0	96.2	111.9	123.9	158.8
75°	78.2	83.0	93.8	99.9	115.5
77.5°	63.8	69.8	75.8	78.2	78.2
80°	49.3	56.5	58.9	58.9	56.5
82.5°	36.1	42.1	43.3	40.9	38.5
85°	22.9	28.9	28.9	26.5	24.1
87.5°	10.8	15.6	15.6	14.4	10.8
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	13.95	15.45	14.32	15.76	16.08	17.88	19.38	18.25	19.69	20.01
	3H	15.53	16.87	15.90	17.20	17.56	19.31	20.65	19.68	20.98	21.34
	4H	16.14	17.40	16.54	17.75	18.13	19.72	20.98	20.12	21.33	21.71
	6H	16.63	17.80	17.05	18.16	18.56	19.94	21.10	20.35	21.47	21.86
	8H	16.81	17.92	17.24	18.31	18.71	20.00	21.10	20.42	21.49	21.89
	12H	16.93	17.99	17.36	18.37	18.80	20.03	21.09	20.46	21.47	21.90
4H	2H	14.69	15.95	15.09	16.30	16.68	18.01	19.27	18.41	19.62	20.00
	3H	16.47	17.52	16.88	17.92	18.32	19.62	20.66	20.03	21.06	21.47
	4H	17.21	18.15	17.64	18.56	19.00	20.15	21.09	20.58	21.50	21.94
	6H	17.84	18.66	18.30	19.10	19.56	20.49	21.31	20.95	21.75	22.21
	8H	18.07	18.84	18.53	19.28	19.75	20.59	21.35	21.05	21.80	22.26
	12H	18.25	18.93	18.73	19.41	19.88	20.66	21.34	21.14	21.82	22.29
8H	4H	17.61	18.37	18.07	18.82	19.28	20.25	21.02	20.72	21.46	21.93
	6H	18.39	19.03	18.89	19.52	19.99	20.69	21.32	21.19	21.82	22.29
	8H	18.72	19.28	19.23	19.79	20.28	20.85	21.42	21.36	21.93	22.42
	12H	18.99	19.49	19.50	19.99	20.55	20.99	21.49	21.50	21.98	22.54
12H	4H	17.65	18.33	18.13	18.81	19.28	20.25	20.94	20.74	21.41	21.89
	6H	18.48	19.04	18.99	19.55	20.04	20.71	21.28	21.22	21.79	22.27
	8H	18.87	19.37	19.38	19.87	20.43	20.92	21.42	21.43	21.91	22.48