

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061981

Luminaire Tested: S125RDR-H1270D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061981
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: S125RDR-H1270D935-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, 90 CRI LEDS
Ballast/Driver: -

Summary

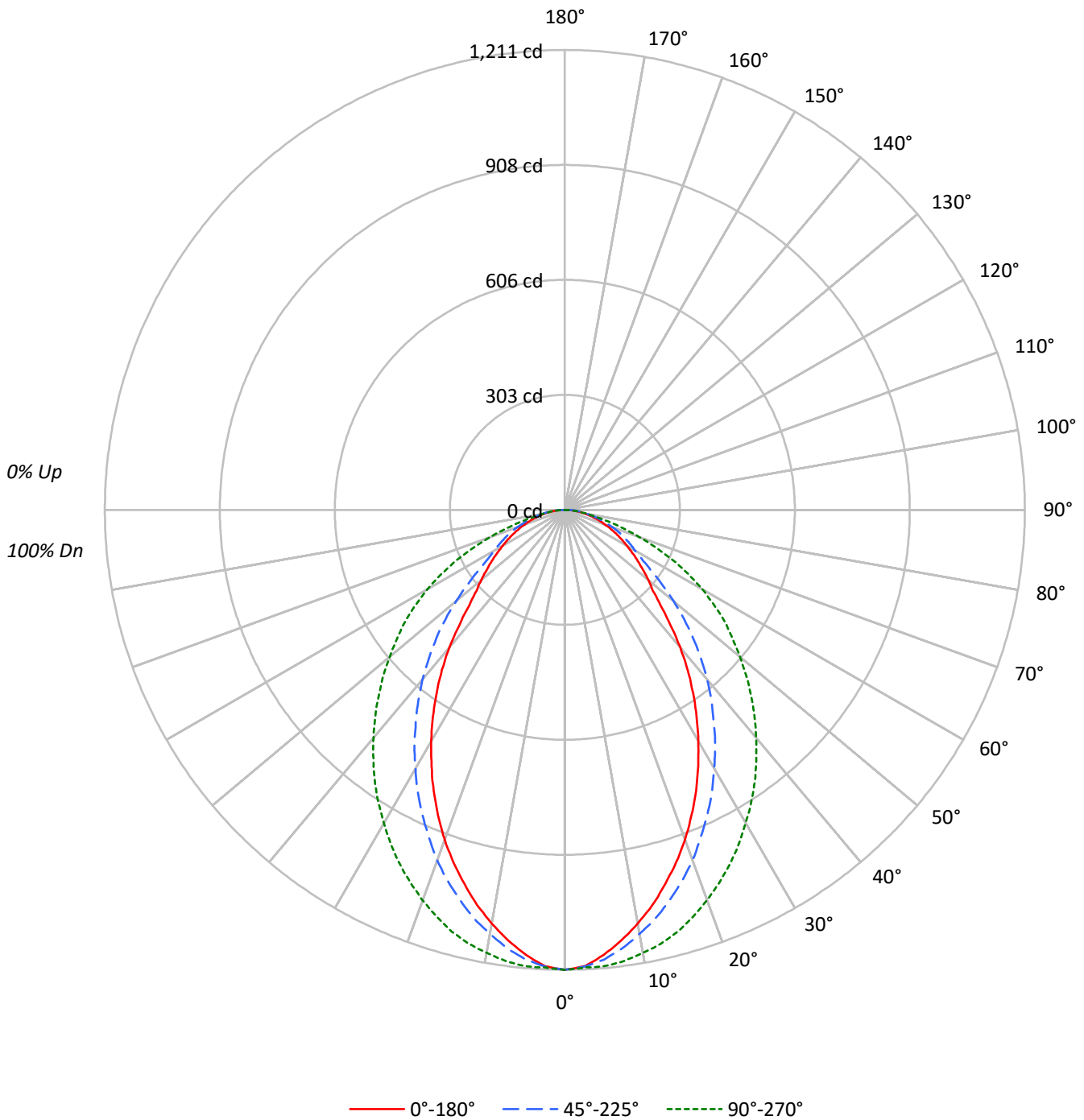
Lumens per Lamp: N/A
Luminaire Lumens: 2270.7 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	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			86	
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74			74	
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64			64	
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56			56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			50	
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44			44	
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40			40	
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36			36	
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33			33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30			30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8339	8339	8339
5°	8129	8213	8338
10°	7733	7927	8282
15°	7271	7590	8194
20°	6774	7200	8015
25°	6205	6739	7814
30°	5589	6253	7571
35°	4943	5747	7333
40°	4241	5231	7048
45°	3464	4654	6752
50°	3072	3992	6442
55°	2817	3312	6174
60°	2600	2933	5749
65°	2424	2818	5125
70°	2265	2679	4189
75°	2094	2511	3091
80°	1967	2351	2256
85°	1817	2291	1912

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6752 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	4.9
10°-20°	301.9	13.3
20°-30°	415.0	18.3
30°-40°	439.8	19.4
40°-50°	383.9	16.9
50°-60°	291.6	12.8
60°-70°	195.4	8.6
70°-80°	100.7	4.4
80°-90°	30.2	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°	829.0	36.5
0°-40°	1268.8	55.9
0°-60°	1944.3	85.6
0°-90°	2270.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2270.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1176	1188	1188	1197	1206	110
15°	1020	1039	1065	1112	1150	286
25°	817	842	887	961	1028	374
35°	588	622	684	780	872	367
45°	356	391	478	592	693	281
55°	235	242	276	405	514	210
65°	149	152	173	231	315	148
75°	79	84	94	100	116	84
85°	23	29	29	27	24	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1211.2	1211.2	1211.2	1211.2	1211.2
2.5°	1202.8	1211.2	1204.0	1204.0	1206.4
5°	1176.2	1188.3	1188.3	1196.7	1206.4
7.5°	1143.5	1156.8	1164.1	1183.4	1197.9
10°	1106.0	1120.5	1133.8	1162.8	1184.6
12.5°	1066.0	1081.8	1102.3	1139.9	1170.1
15°	1020.1	1039.4	1064.8	1112.0	1149.5
17.5°	974.1	993.4	1024.9	1080.6	1122.9
20°	924.5	945.0	982.6	1043.1	1093.9
22.5°	871.2	894.2	934.1	1003.1	1062.4
25°	816.8	842.2	887.0	960.8	1028.5
27.5°	759.9	790.2	838.6	917.2	992.2
30°	703.0	733.3	786.5	872.4	952.3
32.5°	646.2	678.8	736.9	827.7	913.6
35°	588.1	622.0	683.7	780.5	872.4
37.5°	531.2	565.1	634.1	734.5	827.7
40°	471.9	507.0	582.0	687.3	784.1
42.5°	411.4	448.9	530.0	638.9	739.3
45°	355.8	390.8	478.0	591.7	693.4
47.5°	314.6	337.6	425.9	543.3	648.6
50°	286.8	298.9	372.7	496.1	601.4
52.5°	258.9	268.6	323.1	447.7	556.6
55°	234.7	242.0	275.9	405.4	514.3
57.5°	210.5	217.8	239.6	363.0	464.7
60°	188.8	194.8	213.0	318.2	417.5
62.5°	168.2	173.0	192.4	275.9	366.6
65°	148.8	152.5	173.0	231.1	314.6
67.5°	129.5	133.1	153.7	188.8	258.9
70°	112.5	113.7	133.1	153.7	208.1
72.5°	95.6	96.8	112.5	124.6	159.7
75°	78.7	83.5	94.4	100.4	116.2
77.5°	64.1	70.2	76.2	78.7	78.7
80°	49.6	56.9	59.3	59.3	56.9
82.5°	36.3	42.4	43.6	41.1	38.7
85°	23.0	29.0	29.0	26.6	24.2
87.5°	10.9	15.7	15.7	14.5	10.9
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	13.98	15.47	14.34	15.79	16.10	17.90	19.40	18.27	19.71	20.03
	3H	15.55	16.89	15.93	17.22	17.58	19.33	20.67	19.70	21.00	21.36
	4H	16.16	17.42	16.56	17.77	18.15	19.74	21.00	20.14	21.35	21.73
	6H	16.66	17.82	17.07	18.18	18.58	19.96	21.12	20.37	21.49	21.88
	8H	16.83	17.94	17.26	18.33	18.73	20.02	21.12	20.44	21.51	21.91
	12H	16.95	18.01	17.38	18.39	18.82	20.05	21.11	20.48	21.49	21.92
4H	2H	14.71	15.97	15.11	16.32	16.70	18.03	19.29	18.43	19.64	20.02
	3H	16.49	17.54	16.90	17.94	18.34	19.64	20.68	20.05	21.08	21.49
	4H	17.23	18.17	17.66	18.58	19.02	20.17	21.11	20.60	21.52	21.96
	6H	17.86	18.68	18.32	19.12	19.58	20.51	21.33	20.97	21.77	22.23
	8H	18.09	18.86	18.56	19.30	19.77	20.61	21.37	21.07	21.82	22.28
	12H	18.27	18.95	18.75	19.43	19.90	20.68	21.36	21.16	21.84	22.31
8H	4H	17.63	18.39	18.09	18.84	19.30	20.27	21.04	20.74	21.48	21.95
	6H	18.41	19.05	18.91	19.54	20.02	20.71	21.34	21.21	21.84	22.31
	8H	18.74	19.31	19.25	19.82	20.30	20.87	21.44	21.38	21.95	22.44
	12H	19.01	19.51	19.52	20.01	20.57	21.01	21.51	21.52	22.00	22.56
12H	4H	17.67	18.35	18.15	18.83	19.30	20.27	20.96	20.76	21.43	21.91
	6H	18.50	19.07	19.01	19.58	20.06	20.73	21.30	21.24	21.81	22.29
	8H	18.89	19.39	19.40	19.89	20.45	20.94	21.44	21.45	21.93	22.50