

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: P1060314

Luminaire Tested: S124RDRP-S1195D835-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D835-X4F0-XX-UDD-SVL-W
Description: DEFINE 4 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

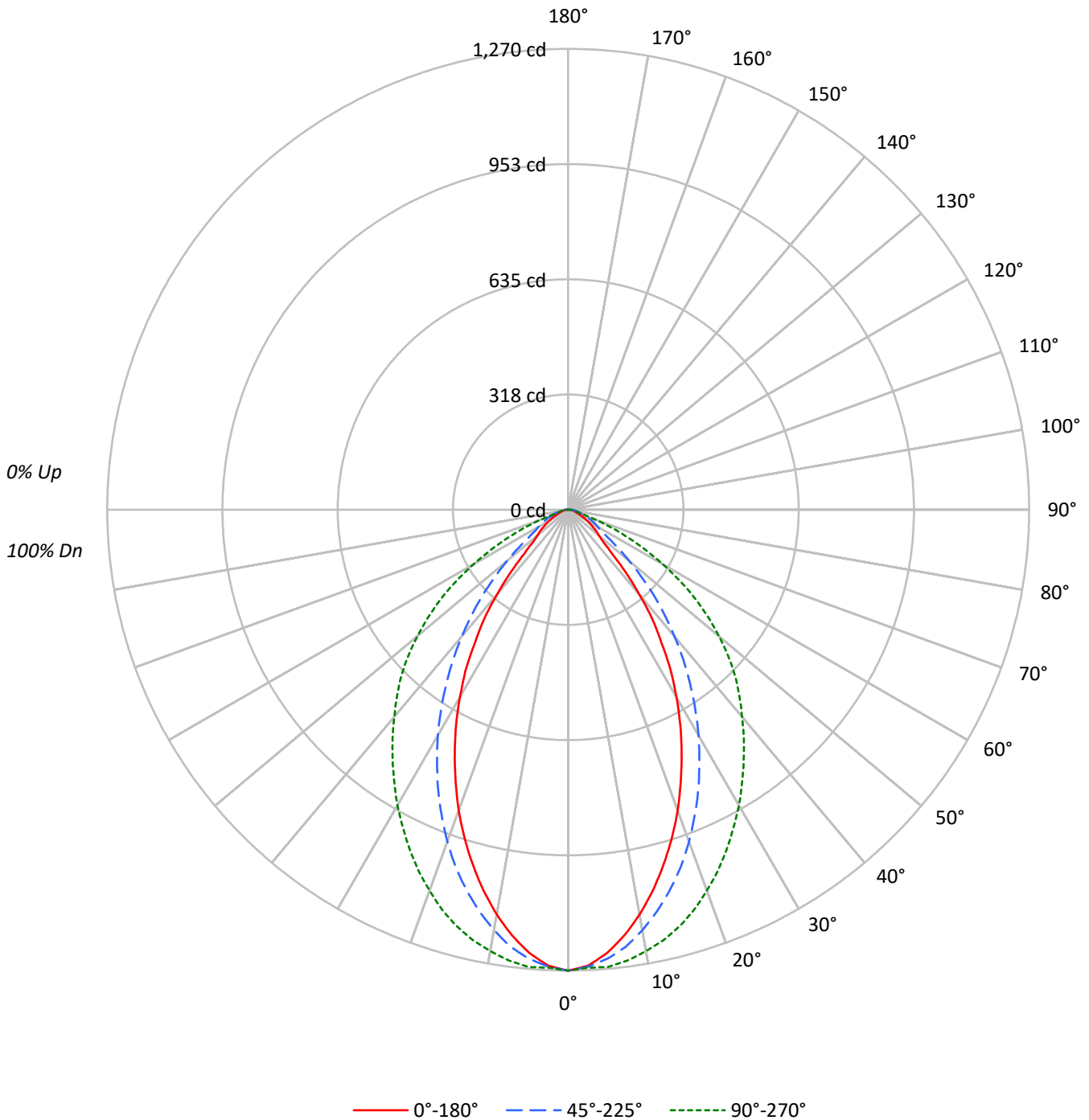
Lumens per Lamp: N/A
Luminaire Lumens: 1798.0 lumens
Efficiency: N/A
Efficacy: 43.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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

TEST NUMBER: P1060314

CATALOG NUMBER: S124RDRP-S1195D835-X4F0-XX-UDD-SVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1060314

CATALOG NUMBER: S124RDRP-S1195D835-X4F0-XX-UDD-SVL-W

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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10940	10940	10940
5°	10601	10736	10932
10°	9904	10289	10798
15°	9035	9667	10592
20°	8078	8923	10237
25°	7026	8065	9818
30°	5928	7141	9358
35°	4715	6148	8863
40°	3431	5121	8377
45°	2074	4044	7934
50°	1483	2928	7264
55°	1257	1982	6414
60°	1026	1614	5182
65°	809	1447	3731
70°	680	1216	1966
75°	616	1135	991
80°	635	1126	987
85°	840	1680	1126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7934 cd/sqm



TEST NUMBER: P1060314

CATALOG NUMBER: S124RDRP-S1195D835-X4F0-XX-UDD-SVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	6.5
10°-20°	306.5	17.0
20°-30°	397.5	22.1
30°-40°	382.6	21.3
40°-50°	284.6	15.8
50°-60°	175.1	9.7
60°-70°	86.0	4.8
70°-80°	33.5	1.9
80°-90°	15.3	0.9
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°	820.9	45.7
0°-40°	1203.5	66.9
0°-60°	1663.2	92.5
0°-90°	1798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1226	1245	1242	1253	1265	114
15°	1014	1046	1084	1150	1188	283
25°	740	779	849	955	1033	338
35°	448	491	585	731	843	280
45°	170	212	332	512	652	141
55°	84	87	132	301	427	75
65°	40	43	71	114	183	41
75°	18	33	34	31	30	20
85°	8	16	17	17	11	9
90°	0	0	0	0	0	



TEST NUMBER: P1060314

CATALOG NUMBER: S124RDRP-S1195D835-X4F0-XX-UDD-SVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.4	1270.4	1270.4	1270.4	1270.4
2.5°	1257.6	1271.8	1260.4	1261.9	1263.3
5°	1226.4	1244.8	1242.0	1253.3	1264.7
7.5°	1183.8	1205.1	1215.0	1237.7	1253.3
10°	1132.7	1156.8	1176.7	1213.6	1234.9
12.5°	1075.9	1104.3	1132.7	1182.4	1215.0
15°	1013.5	1046.1	1084.4	1149.7	1188.1
17.5°	949.6	982.2	1031.9	1107.1	1155.4
20°	881.5	916.9	973.7	1057.5	1117.1
22.5°	810.5	848.8	911.3	1006.4	1077.3
25°	739.5	779.3	848.8	955.3	1033.3
27.5°	668.5	706.9	782.1	901.3	986.5
30°	596.2	635.9	718.2	843.1	941.1
32.5°	526.6	563.5	651.5	787.8	891.4
35°	448.5	491.1	584.8	731.0	843.1
37.5°	381.8	420.1	520.9	674.2	794.9
40°	305.2	347.8	455.6	618.9	745.2
42.5°	234.2	276.8	393.2	563.5	698.4
45°	170.3	211.5	332.1	512.4	651.5
47.5°	129.2	153.3	272.5	462.7	599.0
50°	110.7	117.8	218.6	408.8	542.2
52.5°	97.9	100.8	170.3	354.9	485.4
55°	83.7	86.6	132.0	300.9	427.2
57.5°	71.0	72.4	106.5	249.8	364.8
60°	59.6	61.0	93.7	200.1	300.9
62.5°	49.7	51.1	83.7	154.7	239.9
65°	39.7	42.6	71.0	113.6	183.1
67.5°	32.6	38.3	59.6	79.5	127.7
70°	27.0	36.9	48.3	55.4	78.1
72.5°	22.7	34.1	41.2	39.7	38.3
75°	18.5	32.6	34.1	31.2	29.8
77.5°	15.6	28.4	28.4	25.5	24.1
80°	12.8	22.7	22.7	22.7	19.9
82.5°	11.4	18.5	19.9	19.9	15.6
85°	8.5	15.6	17.0	17.0	11.4
87.5°	5.7	14.2	15.6	14.2	8.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1060314
 CATALOG NUMBER: S124RDRP-S1195D835-X4F0-XX-UDD-SVL-W

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	8.10	9.44	8.46	9.75	10.07	17.26	18.61	17.63	18.92	19.23
	3H	9.21	10.40	9.59	10.73	11.09	17.77	18.96	18.15	19.29	19.66
	4H	9.73	10.84	10.13	11.19	11.57	17.79	18.90	18.19	19.25	19.63
	6H	10.16	11.18	10.57	11.55	11.94	17.80	18.82	18.22	19.19	19.59
	8H	10.35	11.32	10.78	11.71	12.11	17.81	18.77	18.23	19.16	19.57
	12H	10.53	11.46	10.96	11.84	12.27	17.81	18.73	18.24	19.12	19.55
4H	2H	9.24	10.35	9.65	10.70	11.09	17.16	18.27	17.56	18.62	19.00
	3H	10.58	11.49	11.00	11.90	12.30	17.75	18.66	18.16	19.06	19.46
	4H	11.32	12.13	11.75	12.55	12.99	17.80	18.62	18.24	19.04	19.48
	6H	11.93	12.63	12.39	13.07	13.54	17.88	18.58	18.34	19.03	19.49
	8H	12.17	12.83	12.64	13.27	13.74	17.91	18.57	18.38	19.01	19.48
	12H	12.41	12.99	12.89	13.47	13.94	17.95	18.53	18.44	19.01	19.49
8H	4H	11.78	12.44	12.25	12.89	13.36	17.76	18.42	18.23	18.87	19.34
	6H	12.63	13.17	13.14	13.67	14.15	17.89	18.43	18.39	18.92	19.40
	8H	13.04	13.53	13.56	14.04	14.53	17.97	18.46	18.49	18.97	19.46
	12H	13.47	13.89	13.98	14.39	14.96	18.09	18.52	18.61	19.02	19.59
12H	4H	11.84	12.42	12.32	12.90	13.38	17.74	18.32	18.22	18.80	19.27
	6H	12.77	13.25	13.29	13.76	14.26	17.87	18.36	18.39	18.87	19.36
	8H	13.29	13.72	13.80	14.21	14.78	18.00	18.43	18.52	18.93	19.50