

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: P1060557

Luminaire Tested: S124RDRP-S795D835-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060557
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-S795D835-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

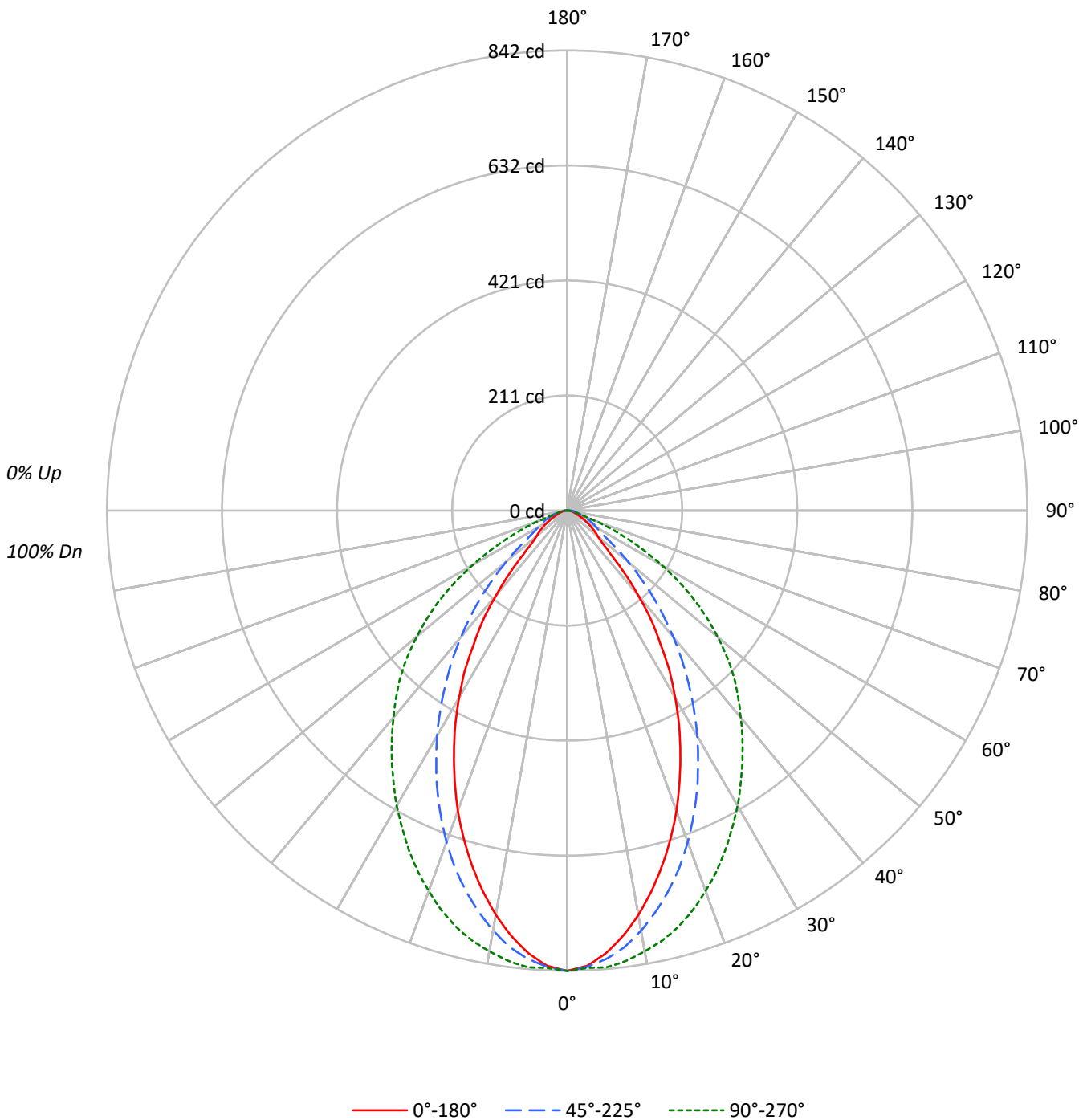
Lumens per Lamp: N/A
Luminaire Lumens: 1192.2 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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

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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	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°	7253	7253	7253
5°	7029	7118	7249
10°	6567	6822	7160
15°	5991	6410	7023
20°	5356	5916	6788
25°	4659	5347	6510
30°	3931	4735	6205
35°	3126	4077	5877
40°	2275	3396	5554
45°	1375	2682	5261
50°	983	1941	4816
55°	833	1314	4253
60°	680	1070	3436
65°	538	960	2474
70°	451	806	1304
75°	406	752	659
80°	422	749	655
85°	553	1116	741

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5261 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	6.5
10°-20°	203.2	17.0
20°-30°	263.5	22.1
30°-40°	253.7	21.3
40°-50°	188.7	15.8
50°-60°	116.1	9.7
60°-70°	57.0	4.8
70°-80°	22.2	1.9
80°-90°	10.2	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°	544.3	45.7
0°-40°	798.0	66.9
0°-60°	1102.8	92.5
0°-90°	1192.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1192.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	813	825	824	831	839	76
15°	672	694	719	762	788	188
25°	490	517	563	633	685	224
35°	297	326	388	485	559	186
45°	113	140	220	340	432	94
55°	56	57	88	200	283	50
65°	26	28	47	75	121	27
75°	12	22	23	21	20	13
85°	6	10	11	11	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.3	842.3	842.3	842.3	842.3
2.5°	833.9	843.3	835.8	836.7	837.6
5°	813.2	825.4	823.5	831.0	838.6
7.5°	784.9	799.0	805.6	820.7	831.0
10°	751.0	767.0	780.2	804.7	818.8
12.5°	713.4	732.2	751.0	784.0	805.6
15°	672.0	693.6	719.0	762.3	787.8
17.5°	629.6	651.3	684.2	734.1	766.1
20°	584.5	608.0	645.6	701.2	740.7
22.5°	537.4	562.8	604.2	667.3	714.3
25°	490.3	516.7	562.8	633.4	685.2
27.5°	443.3	468.7	518.6	597.6	654.1
30°	395.3	421.6	476.2	559.1	624.0
32.5°	349.2	373.6	432.0	522.3	591.1
35°	297.4	325.6	387.8	484.7	559.1
37.5°	253.2	278.6	345.4	447.1	527.1
40°	202.4	230.6	302.1	410.3	494.1
42.5°	155.3	183.5	260.7	373.6	463.1
45°	112.9	140.2	220.2	339.8	432.0
47.5°	85.6	101.6	180.7	306.8	397.2
50°	73.4	78.1	144.9	271.1	359.5
52.5°	64.9	66.8	112.9	235.3	321.9
55°	55.5	57.4	87.5	199.5	283.3
57.5°	47.1	48.0	70.6	165.6	241.9
60°	39.5	40.5	62.1	132.7	199.5
62.5°	32.9	33.9	55.5	102.6	159.1
65°	26.4	28.2	47.1	75.3	121.4
67.5°	21.6	25.4	39.5	52.7	84.7
70°	17.9	24.5	32.0	36.7	51.8
72.5°	15.1	22.6	27.3	26.4	25.4
75°	12.2	21.6	22.6	20.7	19.8
77.5°	10.4	18.8	18.8	16.9	16.0
80°	8.5	15.1	15.1	15.1	13.2
82.5°	7.5	12.2	13.2	13.2	10.4
85°	5.6	10.4	11.3	11.3	7.5
87.5°	3.8	9.4	10.4	9.4	5.6
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	6.67	8.01	7.04	8.32	8.64	15.84	17.18	16.20	17.49	17.81
	3H	7.78	8.97	8.16	9.30	9.67	16.34	17.53	16.72	17.86	18.23
	4H	8.30	9.41	8.70	9.76	10.14	16.36	17.47	16.77	17.82	18.21
	6H	8.73	9.75	9.15	10.12	10.52	16.37	17.39	16.79	17.76	18.16
	8H	8.92	9.89	9.35	10.28	10.69	16.38	17.34	16.81	17.74	18.14
	12H	9.10	10.03	9.53	10.41	10.84	16.38	17.31	16.81	17.69	18.12
4H	2H	7.82	8.93	8.22	9.28	9.66	15.73	16.84	16.13	17.19	17.57
	3H	9.16	10.07	9.57	10.47	10.87	16.32	17.23	16.73	17.63	18.03
	4H	9.89	10.70	10.32	11.12	11.56	16.38	17.19	16.81	17.61	18.05
	6H	10.50	11.20	10.96	11.65	12.11	16.45	17.15	16.91	17.60	18.07
	8H	10.74	11.40	11.21	11.84	12.31	16.48	17.14	16.95	17.59	18.06
	12H	10.98	11.56	11.46	12.04	12.51	16.52	17.10	17.01	17.59	18.06
8H	4H	10.36	11.01	10.82	11.46	11.93	16.33	16.99	16.80	17.44	17.91
	6H	11.21	11.75	11.71	12.24	12.72	16.46	17.00	16.96	17.50	17.98
	8H	11.61	12.10	12.13	12.61	13.10	16.55	17.03	17.07	17.54	18.04
	12H	12.03	12.46	12.55	12.96	13.53	16.67	17.09	17.18	17.59	18.16
12H	4H	10.41	10.99	10.90	11.47	11.95	16.31	16.89	16.79	17.37	17.84
	6H	11.34	11.82	11.86	12.34	12.83	16.44	16.93	16.96	17.44	17.93
	8H	11.86	12.29	12.38	12.78	13.35	16.58	17.01	17.09	17.50	18.07