

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: P1061518

Luminaire Tested: S125RDRP-S1270D830-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D830-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

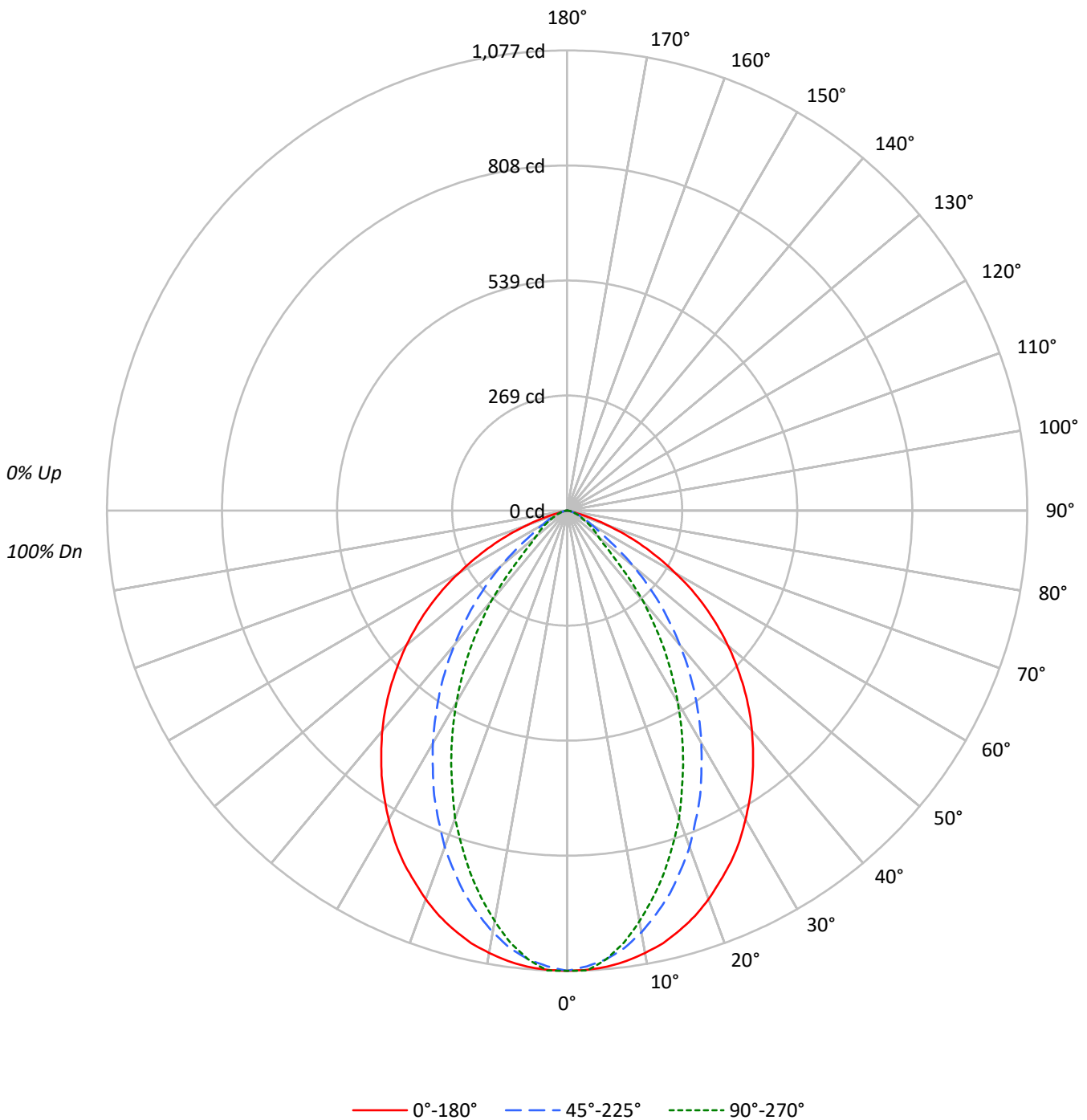
Lumens per Lamp: N/A
Luminaire Lumens: 1557.9 lumens
Efficiency: N/A
Efficacy: 37.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7417	7417	7417
5°	7407	7285	7285
10°	7349	7005	6823
15°	7249	6615	6254
20°	7090	6138	5616
25°	6894	5594	4877
30°	6638	4995	4114
35°	6362	4372	3336
40°	6053	3690	2473
45°	5691	2959	1493
50°	5264	2170	1026
55°	4749	1331	855
60°	4033	905	679
65°	3188	691	536
70°	2011	495	441
75°	654	364	364
80°	218	270	325
85°	111	213	213

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5691 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	6.4
10°-20°	263.1	16.9
20°-30°	346.1	22.2
30°-40°	340.1	21.8
40°-50°	257.3	16.5
50°-60°	156.0	10.0
60°-70°	73.6	4.7
70°-80°	19.2	1.2
80°-90°	2.9	0.2
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°	708.8	45.5
0°-40°	1048.9	67.3
0°-60°	1462.2	93.9
0°-90°	1557.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1072	1069	1054	1055	1054	102
15°	1017	990	928	892	877	286
25°	908	839	736	668	642	417
35°	757	656	520	428	397	473
45°	584	460	304	193	153	450
55°	396	271	111	75	71	352
65°	196	100	42	36	33	193
75°	25	16	14	14	14	38
85°	1	1	3	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.2	1077.2	1077.2	1077.2	1077.2
2.5°	1075.9	1075.9	1067.6	1077.2	1077.2
5°	1071.7	1069.0	1054.0	1055.3	1054.0
7.5°	1063.5	1058.1	1032.1	1025.2	1019.7
10°	1051.2	1040.3	1001.9	985.5	975.9
12.5°	1037.5	1018.4	966.3	943.1	928.0
15°	1017.0	989.6	928.0	892.4	877.4
17.5°	995.1	955.4	882.9	840.4	821.3
20°	967.7	921.2	837.7	785.7	766.5
22.5°	937.6	882.9	785.7	728.2	702.2
25°	907.5	839.1	736.4	668.0	642.0
27.5°	873.3	795.3	680.3	609.1	580.4
30°	834.9	751.5	628.3	554.4	517.4
32.5°	796.6	706.3	573.5	492.8	455.8
35°	756.9	655.6	520.1	428.4	396.9
37.5°	714.5	607.7	465.4	369.6	332.6
40°	673.4	559.8	410.6	309.3	275.1
42.5°	629.6	511.9	355.9	250.5	212.2
45°	584.5	459.9	303.9	193.0	153.3
47.5°	537.9	413.4	251.9	142.4	115.0
50°	491.4	364.1	202.6	105.4	95.8
52.5°	443.5	316.2	153.3	87.6	83.5
55°	395.6	271.0	110.9	75.3	71.2
57.5°	346.3	221.7	83.5	64.3	60.2
60°	292.9	177.9	65.7	53.4	49.3
62.5°	243.6	139.6	53.4	43.8	41.1
65°	195.7	99.9	42.4	35.6	32.9
67.5°	146.5	67.1	32.9	27.4	27.4
70°	99.9	43.8	24.6	21.9	21.9
72.5°	60.2	26.0	17.8	17.8	17.8
75°	24.6	16.4	13.7	13.7	13.7
77.5°	8.2	9.6	9.6	11.0	11.0
80°	5.5	5.5	6.8	8.2	8.2
82.5°	2.7	4.1	4.1	5.5	5.5
85°	1.4	1.4	2.7	2.7	2.7
87.5°	0.0	0.0	0.0	1.4	1.4
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	16.29	17.62	16.66	17.93	18.25	6.94	8.28	7.31	8.59	8.90
	3H	17.00	18.17	17.38	18.50	18.87	7.73	8.90	8.11	9.23	9.60
	4H	17.01	18.11	17.42	18.46	18.84	7.98	9.07	8.38	9.42	9.81
	6H	16.94	17.95	17.36	18.32	18.71	8.16	9.16	8.57	9.53	9.93
	8H	16.90	17.85	17.33	18.25	18.65	8.20	9.15	8.63	9.54	9.95
	12H	16.86	17.77	17.29	18.15	18.58	8.21	9.12	8.64	9.50	9.93
4H	2H	16.12	17.22	16.52	17.57	17.95	7.43	8.53	7.83	8.88	9.26
	3H	16.87	17.76	17.28	18.16	18.57	8.34	9.23	8.75	9.63	10.04
	4H	16.89	17.68	17.32	18.10	18.54	8.65	9.45	9.09	9.87	10.31
	6H	16.82	17.51	17.29	17.95	18.42	8.91	9.60	9.38	10.05	10.51
	8H	16.77	17.41	17.24	17.86	18.33	8.98	9.62	9.45	10.07	10.54
	12H	16.73	17.29	17.22	17.77	18.25	9.01	9.57	9.49	10.05	10.53
8H	4H	16.77	17.41	17.24	17.85	18.32	8.77	9.40	9.24	9.85	10.32
	6H	16.69	17.21	17.20	17.71	18.19	9.09	9.60	9.59	10.10	10.58
	8H	16.64	17.11	17.16	17.62	18.11	9.19	9.66	9.71	10.17	10.67
	12H	16.60	17.01	17.11	17.50	18.08	9.25	9.66	9.77	10.16	10.73
12H	4H	16.72	17.29	17.21	17.77	18.24	8.74	9.30	9.22	9.78	10.26
	6H	16.63	17.10	17.16	17.62	18.11	9.06	9.52	9.58	10.04	10.53
	8H	16.60	17.01	17.12	17.51	18.08	9.20	9.61	9.71	10.10	10.67