

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: P1060370

Luminaire Tested: S124RDRP-S1195D940-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D940-X4F0-XX-UDD-WVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

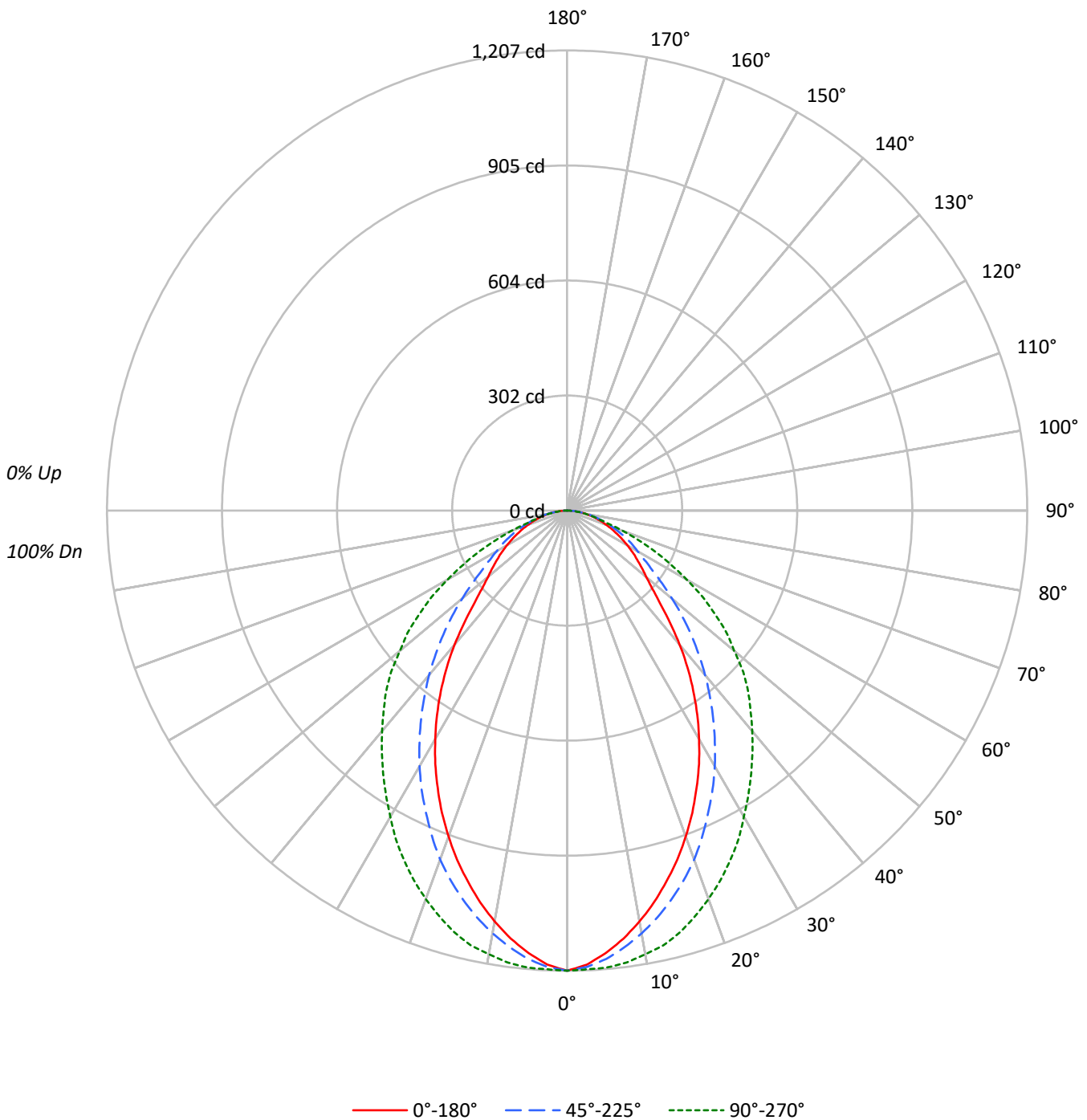
Lumens per Lamp: N/A
Luminaire Lumens: 2197.2 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

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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	108	104	100	97	100	97	94	96	93	91	92	90	89	87					87			
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75					75			
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65					65			
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57					57			
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50					50			
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45					45			
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41					41			
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37					37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34					34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10393	10393	10393
5°	10071	10203	10400
10°	9569	9845	10332
15°	8977	9417	10207
20°	8335	8926	9935
25°	7632	8317	9615
30°	6881	7698	9220
35°	6065	7022	8844
40°	5162	6329	8489
45°	4190	5592	8180
50°	3626	4813	7660
55°	3361	4084	7103
60°	3138	3682	6231
65°	2938	3454	5182
70°	2739	3185	3918
75°	2608	2948	2821
80°	2445	2698	2385
85°	2253	2500	1877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8180 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	5.1
10°-20°	299.5	13.6
20°-30°	409.0	18.6
30°-40°	428.5	19.5
40°-50°	370.8	16.9
50°-60°	278.7	12.7
60°-70°	179.7	8.2
70°-80°	92.1	4.2
80°-90°	27.5	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°	819.9	37.3
0°-40°	1248.3	56.8
0°-60°	1897.9	86.4
0°-90°	2197.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2197.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1165	1183	1180	1189	1203	109
15°	1007	1032	1056	1104	1145	282
25°	803	834	875	944	1012	369
35°	577	610	668	756	841	359
45°	344	380	459	572	672	271
55°	224	232	272	388	473	201
65°	144	147	170	205	254	143
75°	78	87	89	87	85	83
85°	23	27	25	24	19	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.9	1206.9	1206.9	1206.9	1206.9
2.5°	1191.7	1206.9	1198.0	1200.5	1204.3
5°	1165.1	1182.8	1180.3	1189.2	1203.1
7.5°	1132.2	1151.2	1155.0	1175.2	1195.5
10°	1094.3	1115.8	1125.9	1156.3	1181.6
12.5°	1052.5	1075.3	1093.0	1131.0	1167.7
15°	1007.0	1032.3	1056.3	1104.4	1144.9
17.5°	960.2	985.5	1017.1	1070.2	1115.8
20°	909.6	937.4	974.1	1029.8	1084.2
22.5°	857.7	886.8	926.0	986.7	1050.0
25°	803.3	833.7	875.4	943.7	1012.0
27.5°	748.9	779.3	826.1	898.2	972.8
30°	692.0	723.6	774.2	852.7	927.3
32.5°	635.1	669.2	721.1	804.6	884.3
35°	576.9	609.8	668.0	756.5	841.3
37.5°	518.7	552.8	614.8	709.7	798.3
40°	459.2	494.6	563.0	662.9	755.2
42.5°	399.8	437.7	509.8	614.8	712.2
45°	344.1	379.5	459.2	571.8	671.7
47.5°	302.3	326.4	408.6	530.1	626.2
50°	270.7	283.4	359.3	484.5	571.8
52.5°	246.7	255.5	313.7	435.2	527.5
55°	223.9	231.5	272.0	388.4	473.1
57.5°	203.7	207.5	240.4	342.8	421.3
60°	182.2	186.0	213.8	293.5	361.8
62.5°	163.2	165.7	192.3	246.7	307.4
65°	144.2	146.7	169.5	204.9	254.3
67.5°	126.5	130.3	148.0	167.0	202.4
70°	108.8	116.4	126.5	135.4	155.6
72.5°	93.6	101.2	106.3	108.8	110.1
75°	78.4	87.3	88.6	87.3	84.8
77.5°	63.3	70.8	70.8	68.3	65.8
80°	49.3	55.7	54.4	51.9	48.1
82.5°	36.7	40.5	39.2	36.7	32.9
85°	22.8	26.6	25.3	24.0	19.0
87.5°	11.4	15.2	13.9	12.7	7.6
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	14.57	16.05	14.93	16.36	16.68	18.34	19.82	18.70	20.14	20.45
	3H	16.22	17.55	16.60	17.88	18.24	19.45	20.78	19.83	21.11	21.47
	4H	16.89	18.14	17.29	18.49	18.87	19.74	20.99	20.14	21.34	21.72
	6H	17.40	18.55	17.82	18.92	19.31	19.94	21.09	20.35	21.46	21.85
	8H	17.59	18.68	18.01	19.07	19.47	19.99	21.09	20.42	21.48	21.88
	12H	17.71	18.76	18.14	19.14	19.57	20.02	21.07	20.45	21.45	21.88
4H	2H	15.35	16.59	15.75	16.94	17.32	18.50	19.74	18.90	20.09	20.47
	3H	17.21	18.24	17.62	18.64	19.05	19.81	20.84	20.22	21.24	21.65
	4H	18.02	18.95	18.45	19.36	19.80	20.22	21.15	20.65	21.56	22.00
	6H	18.67	19.47	19.12	19.92	20.38	20.53	21.34	20.99	21.79	22.25
	8H	18.90	19.65	19.36	20.09	20.56	20.63	21.38	21.09	21.83	22.29
	12H	19.07	19.74	19.55	20.22	20.69	20.69	21.36	21.17	21.84	22.31
8H	4H	18.37	19.12	18.83	19.57	20.04	20.35	21.11	20.82	21.55	22.02
	6H	19.16	19.78	19.66	20.28	20.75	20.76	21.39	21.26	21.88	22.36
	8H	19.48	20.04	20.00	20.55	21.04	20.91	21.47	21.43	21.98	22.47
	12H	19.75	20.24	20.26	20.74	21.30	21.04	21.53	21.55	22.03	22.59
12H	4H	18.40	19.07	18.88	19.55	20.02	20.36	21.03	20.84	21.51	21.98
	6H	19.22	19.78	19.74	20.29	20.78	20.79	21.35	21.30	21.86	22.34
	8H	19.61	20.10	20.12	20.60	21.16	20.99	21.48	21.50	21.97	22.54