

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: P1060612

Luminaire Tested: S124RDRP-S795D940-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-37)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S795D940-X4F0-XX-UDD-WVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

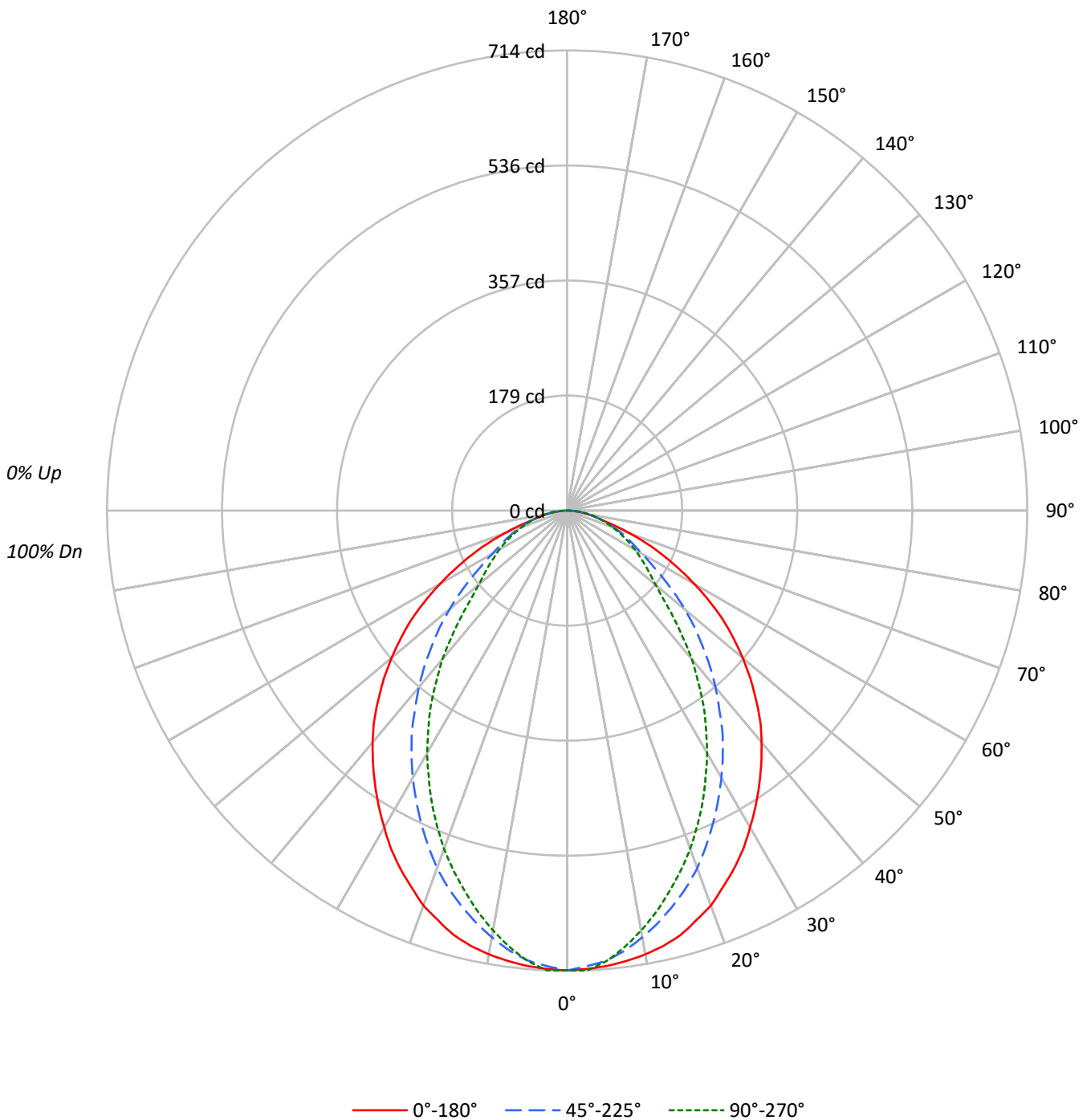
Lumens per Lamp: N/A
Luminaire Lumens: 1375.7 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	82	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6143	6143	6143
5°	6130	6059	6066
10°	6114	5879	5784
15°	6076	5657	5456
20°	5977	5408	5116
25°	5822	5090	4732
30°	5644	4760	4318
35°	5464	4415	3878
40°	5278	4024	3384
45°	5043	3614	2828
50°	4762	3190	2393
55°	4430	2705	2214
60°	3927	2296	2094
65°	3348	2119	1981
70°	2618	1964	1878
75°	1787	1813	1813
80°	1537	1706	1746
85°	1324	1660	1818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5043 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	4.8
10°-20°	180.3	13.1
20°-30°	250.3	18.2
30°-40°	268.3	19.5
40°-50°	237.7	17.3
50°-60°	179.1	13.0
60°-70°	116.0	8.4
70°-80°	59.5	4.3
80°-90°	18.3	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°	496.9	36.1
0°-40°	765.2	55.6
0°-60°	1181.9	85.9
0°-90°	1375.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1375.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	709	710	701	702	702	67
15°	682	666	635	619	612	192
25°	613	580	536	507	498	282
35°	520	473	420	382	369	325
45°	414	360	297	251	232	319
55°	295	246	180	152	148	262
65°	164	132	104	98	97	163
75°	54	56	54	54	54	63
85°	13	14	17	18	18	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.4	713.4	713.4	713.4	713.4
2.5°	711.8	714.3	707.6	712.6	714.3
5°	709.2	710.1	700.9	701.7	701.7
7.5°	705.0	703.4	688.3	684.1	683.3
10°	699.2	694.1	672.4	664.0	661.5
12.5°	691.6	682.4	654.7	643.0	638.0
15°	681.6	666.5	634.6	618.7	612.0
17.5°	666.5	647.2	613.7	593.5	586.0
20°	652.2	626.2	590.2	565.0	558.3
22.5°	632.1	604.4	563.4	536.5	528.2
25°	612.8	580.1	535.7	507.2	498.0
27.5°	591.9	555.0	507.2	477.0	465.3
30°	567.6	528.2	478.7	446.8	434.3
32.5°	544.1	502.2	449.4	414.1	400.7
35°	519.8	472.8	420.0	382.3	368.9
37.5°	494.6	445.2	387.3	350.4	332.8
40°	469.5	417.5	358.0	316.1	301.0
42.5°	443.5	389.0	327.8	284.2	264.9
45°	414.1	360.5	296.8	250.7	232.2
47.5°	385.6	332.8	268.3	218.0	201.2
50°	355.5	303.5	238.1	189.5	178.6
52.5°	325.3	273.3	208.7	167.7	162.6
55°	295.1	245.6	180.2	151.7	147.5
57.5°	261.6	217.1	155.1	137.5	134.1
60°	228.0	186.1	133.3	124.1	121.6
62.5°	195.3	159.3	118.2	110.7	109.0
65°	164.3	132.5	104.0	98.1	97.2
67.5°	134.1	109.0	90.5	87.2	85.5
70°	104.0	87.2	78.0	76.3	74.6
72.5°	77.1	70.4	66.2	65.4	64.6
75°	53.7	56.2	54.5	54.5	54.5
77.5°	42.8	43.6	44.4	45.3	44.4
80°	31.0	33.5	34.4	36.0	35.2
82.5°	21.8	23.5	26.0	26.8	27.7
85°	13.4	14.3	16.8	18.4	18.4
87.5°	5.9	6.7	8.4	10.1	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	16.75	18.24	17.11	18.56	18.87	13.31	14.81	13.68	15.12	15.44
	3H	17.95	19.29	18.33	19.62	19.98	15.01	16.35	15.38	16.68	17.04
	4H	18.26	19.52	18.66	19.87	20.25	15.68	16.94	16.09	17.29	17.67
	6H	18.46	19.62	18.87	19.99	20.38	16.23	17.40	16.65	17.76	18.16
	8H	18.52	19.63	18.95	20.02	20.42	16.45	17.56	16.88	17.95	18.35
	12H	18.55	19.61	18.98	19.99	20.42	16.62	17.68	17.05	18.07	18.49
4H	2H	16.89	18.15	17.29	18.50	18.88	13.97	15.23	14.37	15.58	15.96
	3H	18.29	19.34	18.70	19.74	20.14	15.88	16.93	16.29	17.33	17.73
	4H	18.72	19.66	19.15	20.07	20.51	16.68	17.62	17.12	18.04	18.48
	6H	19.04	19.86	19.50	20.30	20.76	17.37	18.19	17.83	18.63	19.09
	8H	19.14	19.90	19.60	20.35	20.82	17.64	18.41	18.11	18.85	19.32
	12H	19.21	19.89	19.69	20.37	20.84	17.87	18.56	18.36	19.04	19.51
8H	4H	18.84	19.61	19.31	20.05	20.52	17.00	17.76	17.46	18.21	18.68
	6H	19.27	19.90	19.76	20.39	20.87	17.83	18.46	18.33	18.95	19.43
	8H	19.42	19.99	19.94	20.50	20.99	18.19	18.76	18.71	19.27	19.76
	12H	19.55	20.05	20.06	20.55	21.11	18.53	19.03	19.04	19.52	20.09
12H	4H	18.85	19.53	19.33	20.01	20.48	17.03	17.71	17.51	18.19	18.66
	6H	19.29	19.86	19.80	20.37	20.86	17.89	18.46	18.40	18.97	19.45
	8H	19.50	20.00	20.01	20.49	21.06	18.32	18.82	18.83	19.31	19.88