

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060360

Luminaire Tested: S124RDR-S1195D935-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060360
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: S124RDR-S1195D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

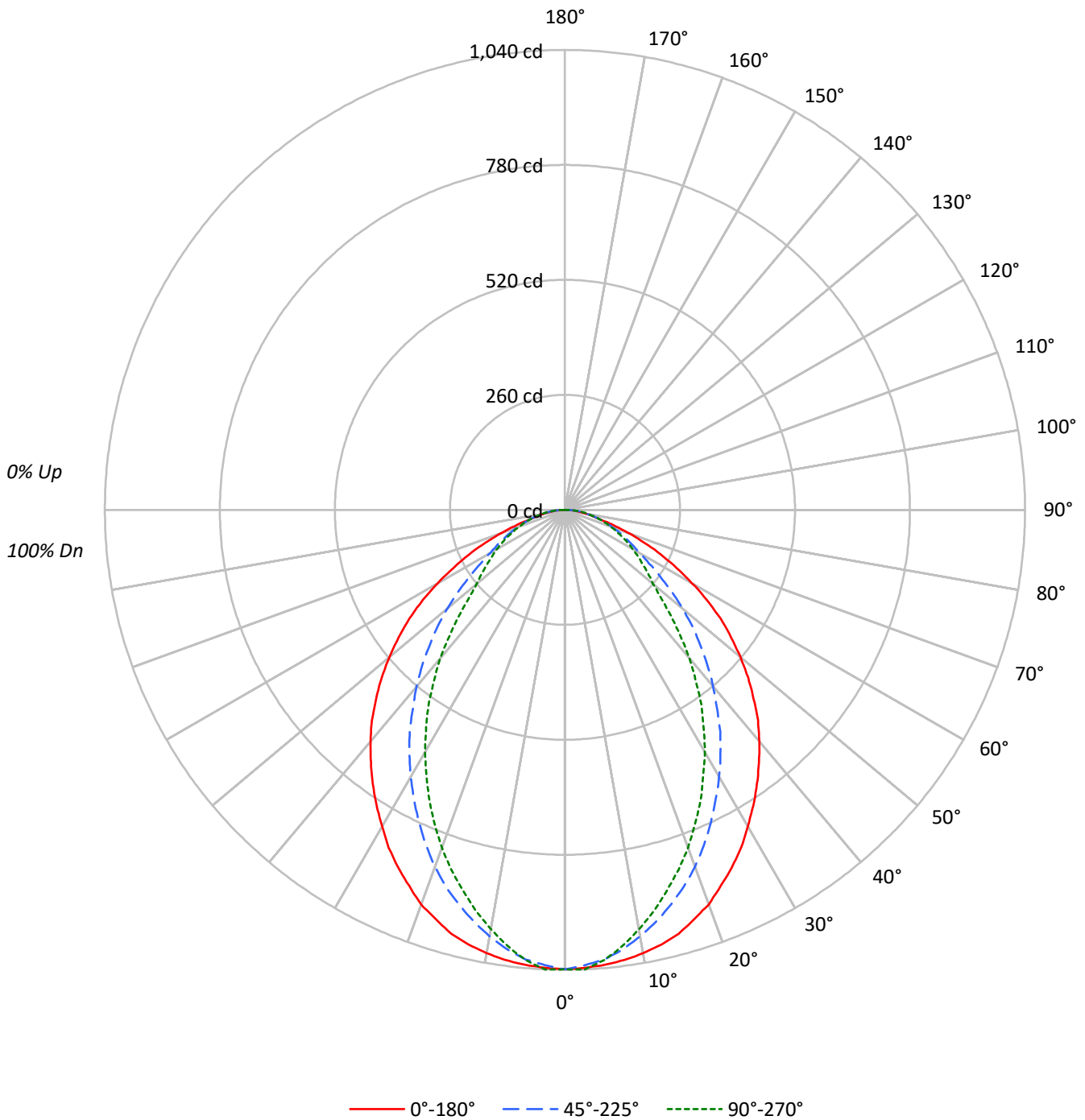
Lumens per Lamp: N/A
Luminaire Lumens: 2003.2 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): 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	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°	8946	8946	8946
5°	8928	8822	8832
10°	8903	8561	8422
15°	8848	8238	7945
20°	8704	7875	7451
25°	8479	7412	6890
30°	8218	6931	6288
35°	7957	6429	5647
40°	7685	5860	4927
45°	7345	5263	4119
50°	6934	4645	3483
55°	6451	3941	3226
60°	5720	3343	3048
65°	4876	3085	2885
70°	3812	2858	2737
75°	2598	2642	2642
80°	2241	2484	2544
85°	1927	2411	2658

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7345 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	4.8
10°-20°	262.5	13.1
20°-30°	364.4	18.2
30°-40°	390.6	19.5
40°-50°	346.1	17.3
50°-60°	260.8	13.0
60°-70°	168.9	8.4
70°-80°	86.7	4.3
80°-90°	26.6	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°	723.6	36.1
0°-40°	1114.2	55.6
0°-60°	1721.1	85.9
0°-90°	2003.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1033	1034	1021	1022	1022	98
15°	992	970	924	901	891	279
25°	892	845	780	739	725	411
35°	757	688	612	557	537	473
45°	603	525	432	365	338	465
55°	430	358	262	221	215	382
65°	239	193	151	143	142	237
75°	78	82	79	79	79	92
85°	20	21	24	27	27	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1038.9	1038.9	1038.9	1038.9	1038.9
2.5°	1036.5	1040.1	1030.4	1037.7	1040.1
5°	1032.8	1034.0	1020.6	1021.8	1021.8
7.5°	1026.7	1024.3	1002.3	996.2	995.0
10°	1018.2	1010.8	979.1	966.9	963.2
12.5°	1007.2	993.7	953.4	936.4	929.0
15°	992.5	970.5	924.1	901.0	891.2
17.5°	970.5	942.5	893.6	864.3	853.3
20°	949.8	911.9	859.4	822.8	813.1
22.5°	920.5	880.2	820.4	781.3	769.1
25°	892.4	844.8	780.1	738.6	725.2
27.5°	861.9	808.2	738.6	694.6	677.5
30°	826.5	769.1	697.1	650.7	632.4
32.5°	792.3	731.3	654.4	603.1	583.5
35°	756.9	688.5	611.6	556.7	537.2
37.5°	720.3	648.2	564.0	510.3	484.7
40°	683.7	608.0	521.3	460.2	438.3
42.5°	645.8	566.5	477.3	413.9	385.8
45°	603.1	524.9	432.2	365.0	338.2
47.5°	561.6	484.7	390.7	317.4	293.0
50°	517.6	441.9	346.7	275.9	260.0
52.5°	473.7	398.0	304.0	244.2	236.8
55°	429.7	357.7	262.5	221.0	214.9
57.5°	380.9	316.2	225.8	200.2	195.3
60°	332.1	271.0	194.1	180.7	177.0
62.5°	284.4	232.0	172.1	161.1	158.7
65°	239.3	192.9	151.4	142.8	141.6
67.5°	195.3	158.7	131.8	127.0	124.5
70°	151.4	127.0	113.5	111.1	108.7
72.5°	112.3	102.5	96.4	95.2	94.0
75°	78.1	81.8	79.4	79.4	79.4
77.5°	62.3	63.5	64.7	65.9	64.7
80°	45.2	48.8	50.1	52.5	51.3
82.5°	31.7	34.2	37.8	39.1	40.3
85°	19.5	20.8	24.4	26.9	26.9
87.5°	8.5	9.8	12.2	14.6	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)