

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: P1060557

Luminaire Tested: S124RDR-S795D835-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S124RDR-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

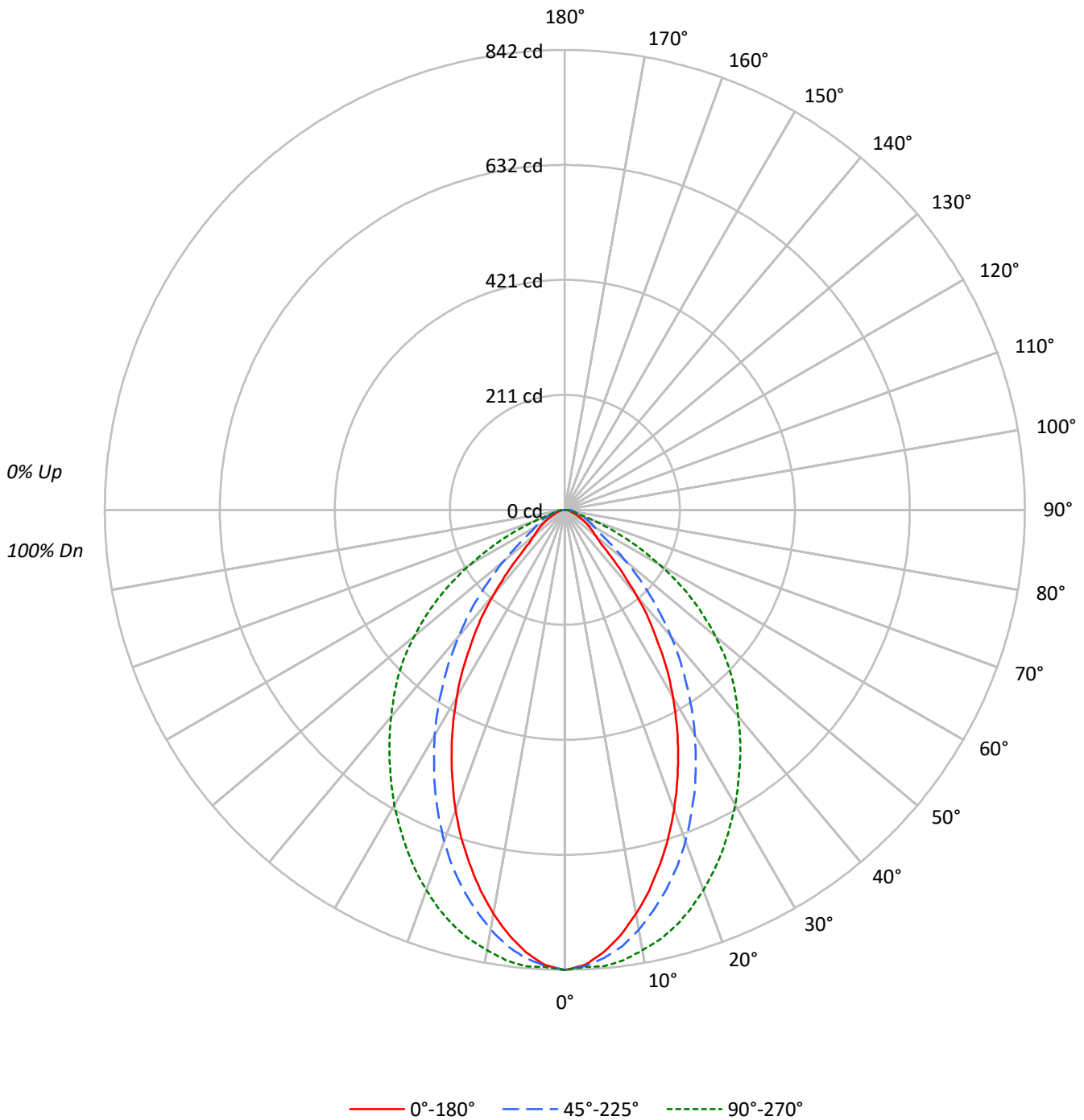
Lumens per Lamp: N/A
Luminaire Lumens: 1192.2 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (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										
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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89															
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79															
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70															
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63															
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57					57															
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51					51															
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47					47															
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43					43															
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39					39															
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36					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

(END OF REPORT)