

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: P1060362

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)
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-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

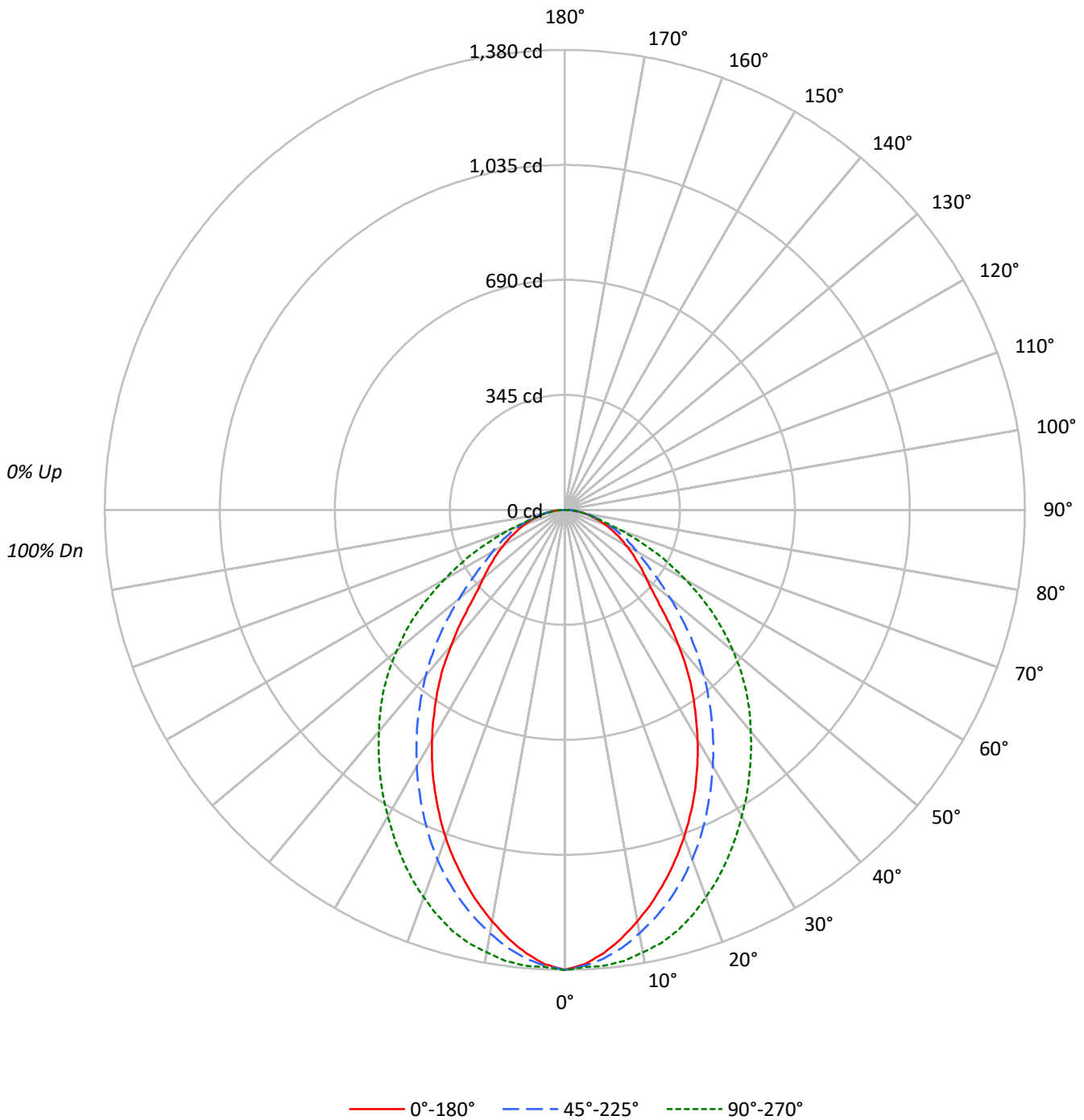
Lumens per Lamp: N/A
Luminaire Lumens: 2533.0 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1060362

CATALOG NUMBER: S124RDR-S1195D935-X4F0-XX-UDD-WVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1060362

CATALOG NUMBER: S124RDR-S1195D935-X4F0-XX-UDD-WVL-W

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	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11888	11888	11888
5°	11542	11679	11869
10°	10960	11281	11793
15°	10303	10804	11654
20°	9583	10232	11340
25°	8787	9553	10969
30°	7920	8831	10556
35°	7012	8078	10158
40°	5960	7292	9750
45°	4880	6442	9372
50°	4271	5531	8822
55°	3924	4768	8161
60°	3639	4292	7195
65°	3411	4032	6023
70°	3200	3691	4522
75°	3008	3374	3294
80°	2787	3089	2787
85°	2539	3013	2411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9372 cd/sqm



TEST NUMBER: P1060362

CATALOG NUMBER: S124RDR-S1195D935-X4F0-XX-UDD-WVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	5.0
10°-20°	343.3	13.6
20°-30°	469.2	18.5
30°-40°	493.1	19.5
40°-50°	427.9	16.9
50°-60°	322.8	12.7
60°-70°	209.2	8.3
70°-80°	107.4	4.2
80°-90°	32.5	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°	940.0	37.1
0°-40°	1433.2	56.6
0°-60°	2183.9	86.2
0°-90°	2533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1335	1354	1351	1362	1373	125
15°	1156	1184	1212	1267	1307	324
25°	925	958	1005	1082	1154	424
35°	667	704	768	871	966	415
45°	401	439	529	661	770	315
55°	261	269	318	451	544	235
65°	167	171	198	239	296	167
75°	90	101	101	103	99	96
85°	26	32	30	29	24	29
90°	0	0	0	0	0	



TEST NUMBER: P1060362

CATALOG NUMBER: S124RDR-S1195D935-X4F0-XX-UDD-WVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1380.5	1380.5	1380.5	1380.5	1380.5
2.5°	1364.6	1381.7	1369.5	1371.9	1373.1
5°	1335.3	1353.6	1351.1	1362.1	1373.1
7.5°	1297.4	1319.4	1324.3	1346.2	1364.6
10°	1253.4	1277.8	1290.1	1325.5	1348.7
12.5°	1207.0	1231.4	1253.4	1298.6	1331.6
15°	1155.7	1183.8	1211.9	1266.8	1307.2
17.5°	1101.9	1131.2	1166.7	1226.5	1274.2
20°	1045.7	1075.0	1116.6	1181.3	1237.5
22.5°	985.9	1018.8	1062.8	1132.5	1198.4
25°	924.8	957.8	1005.4	1082.4	1154.5
27.5°	861.3	895.5	946.8	1032.3	1109.2
30°	796.5	833.2	888.1	978.5	1061.6
32.5°	730.5	769.6	828.3	924.8	1015.2
35°	667.0	703.7	768.4	871.0	966.3
37.5°	601.0	637.7	707.3	818.5	917.5
40°	530.2	570.5	648.7	763.5	867.4
42.5°	464.2	504.5	588.8	711.0	819.7
45°	400.7	438.6	529.0	660.9	769.6
47.5°	351.8	378.7	469.1	612.0	715.9
50°	318.8	331.1	412.9	558.3	658.5
52.5°	289.5	299.3	361.6	504.5	602.3
55°	261.4	268.8	317.6	450.8	543.6
57.5°	237.0	240.7	278.5	397.0	480.1
60°	211.3	216.2	249.2	342.1	417.8
62.5°	190.6	193.0	223.6	289.5	355.5
65°	167.4	171.0	197.9	239.4	295.6
67.5°	146.6	152.7	171.0	195.5	233.3
70°	127.1	135.6	146.6	158.8	179.6
72.5°	108.7	118.5	124.6	129.5	125.8
75°	90.4	101.4	101.4	102.6	99.0
77.5°	73.3	83.1	81.8	80.6	75.7
80°	56.2	64.7	62.3	61.1	56.2
82.5°	41.5	47.6	45.2	44.0	37.9
85°	25.7	31.8	30.5	29.3	24.4
87.5°	12.2	18.3	17.1	15.9	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)