

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: P1061575

Luminaire Tested: S125RDR-S1270D935-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D935-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 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

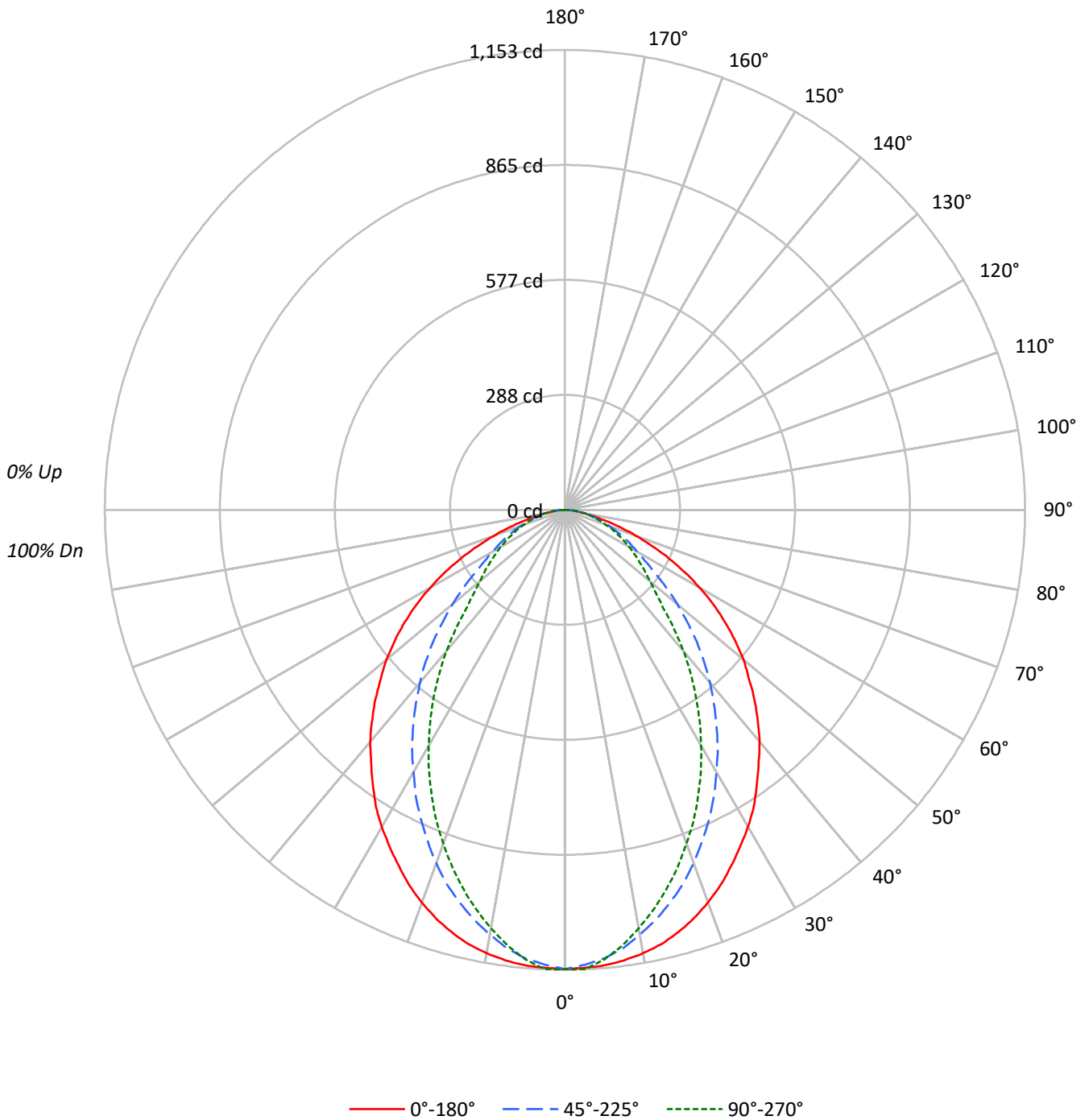
Lumens per Lamp: N/A
Luminaire Lumens: 2181.5 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061575

CATALOG NUMBER: S125RDR-S1270D935-X4F0-XX-UDD-WVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061575

CATALOG NUMBER: S125RDR-S1270D935-X4F0-XX-UDD-WVL-B

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	100	100	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75	75	75	75	
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65	65	65	65	
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57	57	57	57	
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50	50	50	50	
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45	45	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40	40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36	36	36	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7928	7928	7928
5°	7924	7803	7820
10°	7893	7561	7448
15°	7816	7264	7014
20°	7677	6907	6523
25°	7485	6497	6003
30°	7296	6034	5428
35°	7052	5570	4813
40°	6821	5079	4147
45°	6538	4541	3396
50°	6254	3938	2974
55°	5869	3287	2747
60°	5354	2875	2565
65°	4686	2628	2383
70°	3801	2365	2214
75°	2727	2163	2062
80°	1883	1935	1935
85°	1382	1683	1777

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6538 cd/sqm



TEST NUMBER: P1061575

CATALOG NUMBER: S125RDR-S1270D935-X4F0-XX-UDD-WVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	4.9
10°-20°	289.6	13.3
20°-30°	400.3	18.3
30°-40°	426.3	19.5
40°-50°	374.5	17.2
50°-60°	284.0	13.0
60°-70°	184.4	8.5
70°-80°	91.4	4.2
80°-90°	23.9	1.1
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°	796.9	36.5
0°-40°	1223.3	56.1
0°-60°	1881.8	86.3
0°-90°	2181.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2181.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1146	1144	1129	1133	1132	109
15°	1096	1072	1019	995	984	309
25°	985	932	855	812	790	454
35°	839	761	663	603	573	525
45°	671	578	466	383	349	518
55°	489	393	274	236	229	436
65°	288	214	161	149	146	284
75°	102	90	81	79	78	114
85°	18	20	21	21	22	21
90°	0	0	0	0	0	



TEST NUMBER: P1061575

CATALOG NUMBER: S125RDR-S1270D935-X4F0-XX-UDD-WVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.5	1151.5	1151.5	1151.5	<i>1151.5</i>
2.5°	<i>1149.0</i>	<i>1151.5</i>	<i>1141.5</i>	<i>1150.3</i>	<i>1152.8</i>
5°	1146.5	1144.0	1129.0	1132.8	<i>1131.5</i>
7.5°	1139.0	1134.0	1109.0	1106.5	<i>1101.5</i>
10°	1129.0	1116.5	1081.5	1072.8	<i>1065.3</i>
12.5°	1115.3	1095.3	1052.8	1035.3	<i>1026.5</i>
15°	1096.5	1071.5	1019.0	995.2	<i>984.0</i>
17.5°	1074.0	1039.0	984.0	951.5	<i>939.0</i>
20°	1047.8	1006.5	942.7	905.2	<i>890.2</i>
22.5°	1019.0	970.2	899.0	859.0	<i>842.7</i>
25°	985.2	931.5	855.2	811.5	<i>790.2</i>
27.5°	951.5	891.5	809.0	760.2	<i>737.7</i>
30°	917.7	849.0	758.9	706.4	<i>682.7</i>
32.5°	881.5	805.2	712.7	655.2	<i>627.7</i>
35°	839.0	761.4	662.7	602.6	<i>572.6</i>
37.5°	797.7	715.2	613.9	546.4	<i>517.6</i>
40°	758.9	671.4	565.1	491.4	<i>461.4</i>
42.5°	715.2	625.2	516.4	438.9	<i>405.1</i>
45°	671.4	577.6	466.4	382.6	<i>348.8</i>
47.5°	625.2	532.6	413.9	331.3	<i>308.8</i>
50°	583.9	486.4	367.6	292.6	<i>277.6</i>
52.5°	536.4	441.4	320.1	262.6	<i>252.6</i>
55°	488.9	392.6	273.8	236.3	<i>228.8</i>
57.5°	440.1	348.8	237.6	213.8	<i>206.3</i>
60°	388.8	303.8	208.8	190.0	<i>186.3</i>
62.5°	337.6	257.6	183.8	170.0	<i>165.0</i>
65°	287.6	213.8	161.3	148.8	<i>146.3</i>
67.5°	236.3	173.8	138.8	130.0	<i>128.8</i>
70°	188.8	141.3	117.5	112.5	<i>110.0</i>
72.5°	145.0	112.5	98.8	95.0	<i>93.8</i>
75°	102.5	90.0	81.3	78.8	<i>77.5</i>
77.5°	68.8	68.8	65.0	62.5	<i>63.8</i>
80°	47.5	50.0	48.8	48.8	<i>48.8</i>
82.5°	31.3	33.8	35.0	35.0	<i>35.0</i>
85°	17.5	20.0	21.3	21.3	<i>22.5</i>
87.5°	6.3	7.5	8.8	10.0	<i>10.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)