

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: P1061450

Luminaire Tested: S125RDR-S1090D835-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D835-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

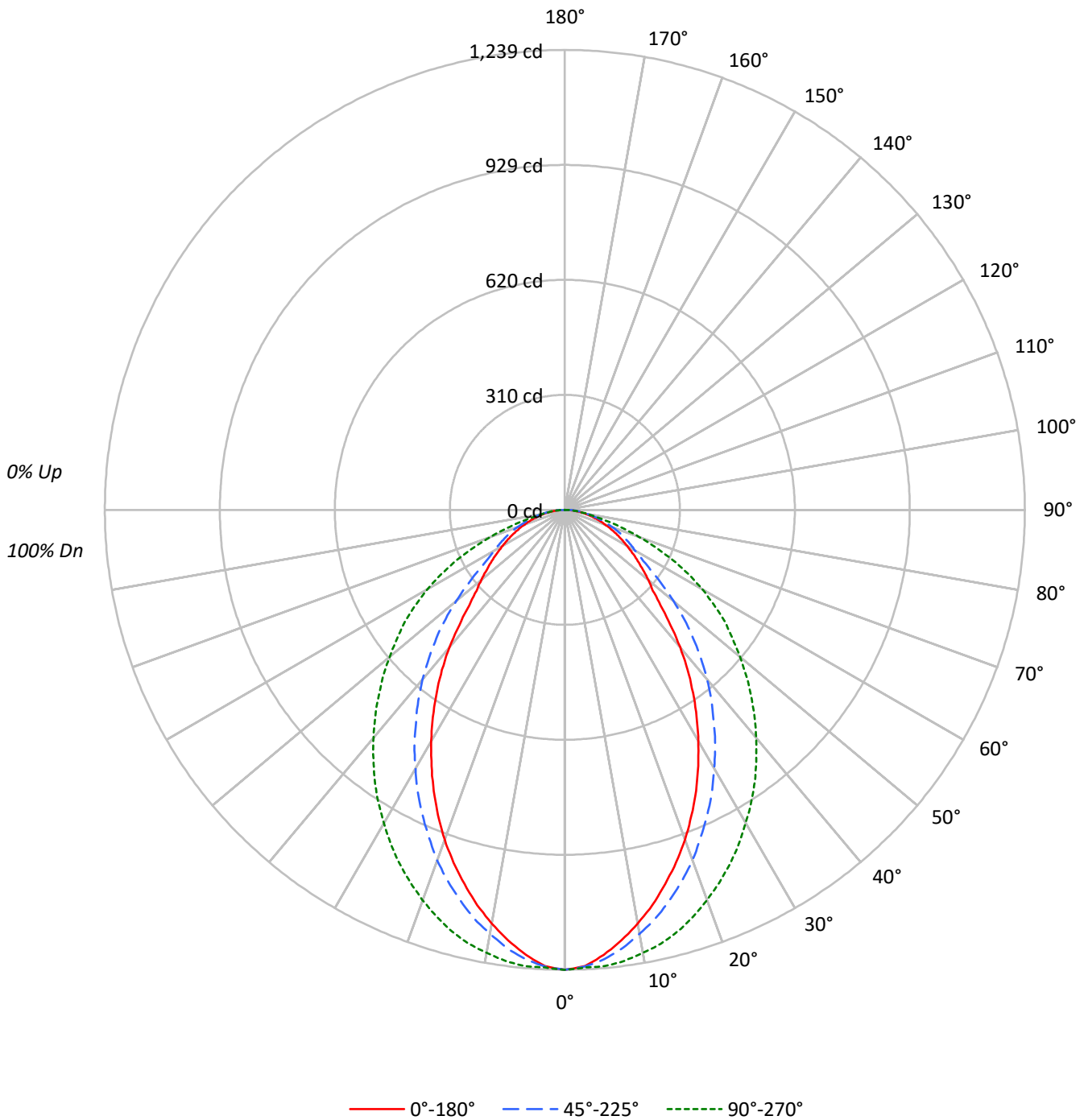
Lumens per Lamp: N/A
Luminaire Lumens: 2323.1 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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				100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44				44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8532	8532	8532
5°	8317	8402	8530
10°	7911	8110	8473
15°	7439	7765	8383
20°	6930	7365	8200
25°	6348	6894	7994
30°	5718	6398	7746
35°	5057	5879	7503
40°	4339	5352	7210
45°	3544	4761	6907
50°	3143	4084	6591
55°	2883	3389	6315
60°	2659	3001	5881
65°	2481	2884	5244
70°	2317	2742	4286
75°	2142	2570	3160
80°	2014	2407	2308
85°	1856	2346	1959

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6907 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	4.9
10°-20°	308.9	13.3
20°-30°	424.5	18.3
30°-40°	449.9	19.4
40°-50°	392.8	16.9
50°-60°	298.4	12.8
60°-70°	199.9	8.6
70°-80°	103.1	4.4
80°-90°	30.9	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°	848.1	36.5
0°-40°	1298.0	55.9
0°-60°	1989.2	85.6
0°-90°	2323.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2323.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1239	1239	1239	1239	1239	
5°	1203	1216	1216	1224	1234	113
15°	1044	1063	1089	1138	1176	293
25°	836	862	907	983	1052	383
35°	602	636	699	798	893	375
45°	364	400	489	605	709	287
55°	240	248	282	415	526	215
65°	152	156	177	236	322	151
75°	80	85	97	103	119	86
85°	24	30	30	27	25	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1230.5	1239.2	1231.8	1231.8	1234.2
5°	1203.3	1215.7	1215.7	1224.3	1234.2
7.5°	1169.9	1183.5	1190.9	1210.7	1225.6
10°	1131.5	1146.3	1160.0	1189.7	1211.9
12.5°	1090.6	1106.7	1127.8	1166.1	1197.1
15°	1043.6	1063.4	1089.4	1137.7	1176.0
17.5°	996.5	1016.4	1048.5	1105.5	1148.8
20°	945.8	966.8	1005.2	1067.1	1119.1
22.5°	891.3	914.8	955.7	1026.3	1086.9
25°	835.6	861.6	907.4	982.9	1052.3
27.5°	777.4	808.4	857.9	938.4	1015.1
30°	719.2	750.2	804.7	892.6	974.3
32.5°	661.1	694.5	753.9	846.8	934.6
35°	601.6	636.3	699.4	798.5	892.6
37.5°	543.5	578.1	648.7	751.4	846.8
40°	482.8	518.7	595.5	703.2	802.2
42.5°	420.9	459.3	542.2	653.6	756.4
45°	364.0	399.9	489.0	605.4	709.3
47.5°	321.9	345.4	435.8	555.8	663.5
50°	293.4	305.8	381.3	507.6	615.3
52.5°	264.9	274.8	330.5	458.0	569.5
55°	240.2	247.6	282.3	414.7	526.1
57.5°	215.4	222.8	245.1	371.4	475.4
60°	193.1	199.3	217.9	325.6	427.1
62.5°	172.1	177.0	196.8	282.3	375.1
65°	152.3	156.0	177.0	236.4	321.9
67.5°	132.5	136.2	157.2	193.1	264.9
70°	115.1	116.4	136.2	157.2	212.9
72.5°	97.8	99.0	115.1	127.5	163.4
75°	80.5	85.4	96.6	102.7	118.8
77.5°	65.6	71.8	78.0	80.5	80.5
80°	50.8	58.2	60.7	60.7	58.2
82.5°	37.1	43.3	44.6	42.1	39.6
85°	23.5	29.7	29.7	27.2	24.8
87.5°	11.1	16.1	16.1	14.9	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)