

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: P1061536

Luminaire Tested: S125RDR-S1270D840-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D840-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

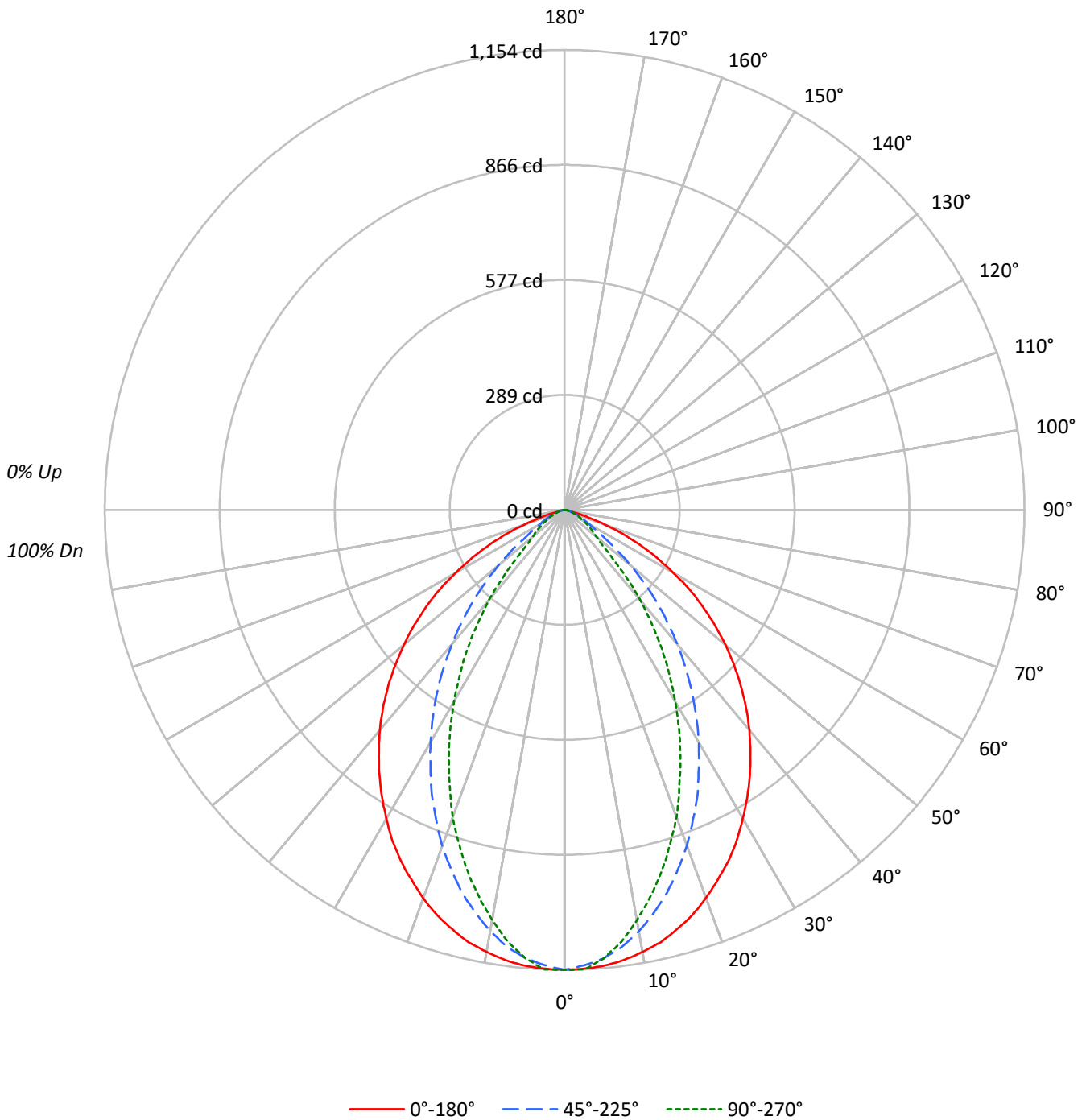
Lumens per Lamp: N/A
Luminaire Lumens: 1669.2 lumens
Efficiency: N/A
Efficacy: 39.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90			90	
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80			80	
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71			71	
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63	
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57	
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			52	
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47			47	
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43			43	
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39			39	
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7947	7947	7947
5°	7937	7805	7805
10°	7874	7505	7310
15°	7767	7087	6700
20°	7597	6576	6018
25°	7387	5994	5225
30°	7112	5351	4408
35°	6817	4684	3575
40°	6485	3955	2650
45°	6097	3170	1600
50°	5640	2324	1100
55°	5087	1426	916
60°	4321	969	727
65°	3416	741	573
70°	2156	531	473
75°	702	391	391
80°	234	289	349
85°	118	229	229

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6097 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	6.4
10°-20°	281.9	16.9
20°-30°	370.8	22.2
30°-40°	364.4	21.8
40°-50°	275.6	16.5
50°-60°	167.1	10.0
60°-70°	78.9	4.7
70°-80°	20.6	1.2
80°-90°	3.1	0.2
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°	759.5	45.5
0°-40°	1123.8	67.3
0°-60°	1566.6	93.9
0°-90°	1669.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1669.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1148	1145	1129	1131	1129	109
15°	1090	1060	994	956	940	307
25°	972	899	789	716	688	447
35°	811	702	557	459	425	506
45°	626	493	326	207	164	482
55°	424	290	119	81	76	377
65°	210	107	46	38	35	207
75°	26	18	15	15	15	41
85°	2	2	3	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.2	1154.2	1154.2	1154.2	1154.2
2.5°	1152.7	1152.7	1143.9	1154.2	1154.2
5°	1148.3	1145.4	1129.2	1130.7	1129.2
7.5°	1139.5	1133.6	1105.8	1098.4	1092.6
10°	1126.3	1114.6	1073.5	1055.9	1045.6
12.5°	1111.6	1091.1	1035.4	1010.4	994.3
15°	1089.6	1060.3	994.3	956.2	940.0
17.5°	1066.2	1023.6	945.9	900.5	879.9
20°	1036.8	987.0	897.5	841.8	821.3
22.5°	1004.6	945.9	841.8	780.2	752.3
25°	972.3	899.0	789.0	715.7	687.8
27.5°	935.6	852.1	728.9	652.6	621.8
30°	894.6	805.1	673.1	593.9	554.4
32.5°	853.5	756.7	614.5	528.0	488.4
35°	811.0	702.5	557.3	459.0	425.3
37.5°	765.5	651.1	498.6	396.0	356.4
40°	721.5	599.8	440.0	331.4	294.8
42.5°	674.6	548.5	381.3	268.4	227.3
45°	626.2	492.8	325.6	206.8	164.3
47.5°	576.3	442.9	269.8	152.5	123.2
50°	526.5	390.1	217.0	112.9	102.7
52.5°	475.2	338.8	164.3	93.9	89.5
55°	423.8	290.4	118.8	80.7	76.3
57.5°	371.0	237.6	89.5	68.9	64.5
60°	313.8	190.6	70.4	57.2	52.8
62.5°	261.0	149.6	57.2	46.9	44.0
65°	209.7	107.1	45.5	38.1	35.2
67.5°	156.9	71.9	35.2	29.3	29.3
70°	107.1	46.9	26.4	23.5	23.5
72.5°	64.5	27.9	19.1	19.1	19.1
75°	26.4	17.6	14.7	14.7	14.7
77.5°	8.8	10.3	10.3	11.7	11.7
80°	5.9	5.9	7.3	8.8	8.8
82.5°	2.9	4.4	4.4	5.9	5.9
85°	1.5	1.5	2.9	2.9	2.9
87.5°	0.0	0.0	0.0	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)