

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: P1061518

Luminaire Tested: S125RDR-S1270D830-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061518
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-S1270D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

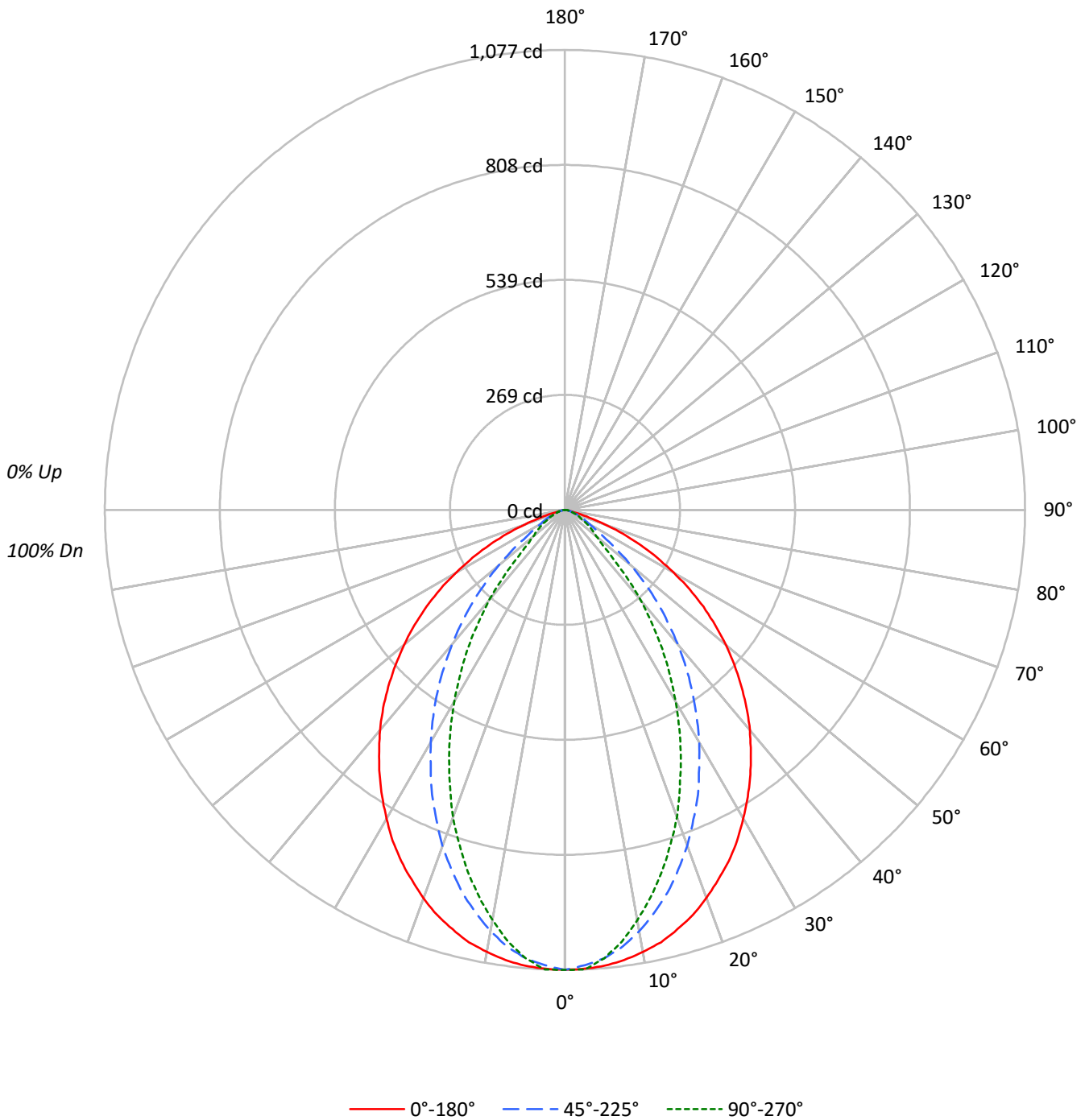
Lumens per Lamp: N/A
Luminaire Lumens: 1557.9 lumens
Efficiency: N/A
Efficacy: 37.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7417	7417	7417
5°	7407	7285	7285
10°	7349	7005	6823
15°	7249	6615	6254
20°	7090	6138	5616
25°	6894	5594	4877
30°	6638	4995	4114
35°	6362	4372	3336
40°	6053	3690	2473
45°	5691	2959	1493
50°	5264	2170	1026
55°	4749	1331	855
60°	4033	905	679
65°	3188	691	536
70°	2011	495	441
75°	654	364	364
80°	218	270	325
85°	111	213	213

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5691 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	6.4
10°-20°	263.1	16.9
20°-30°	346.1	22.2
30°-40°	340.1	21.8
40°-50°	257.3	16.5
50°-60°	156.0	10.0
60°-70°	73.6	4.7
70°-80°	19.2	1.2
80°-90°	2.9	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°	708.8	45.5
0°-40°	1048.9	67.3
0°-60°	1462.2	93.9
0°-90°	1557.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1072	1069	1054	1055	1054	102
15°	1017	990	928	892	877	286
25°	908	839	736	668	642	417
35°	757	656	520	428	397	473
45°	584	460	304	193	153	450
55°	396	271	111	75	71	352
65°	196	100	42	36	33	193
75°	25	16	14	14	14	38
85°	1	1	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°	1077.2	1077.2	1077.2	1077.2	1077.2
2.5°	1075.9	1075.9	1067.6	1077.2	1077.2
5°	1071.7	1069.0	1054.0	1055.3	1054.0
7.5°	1063.5	1058.1	1032.1	1025.2	1019.7
10°	1051.2	1040.3	1001.9	985.5	975.9
12.5°	1037.5	1018.4	966.3	943.1	928.0
15°	1017.0	989.6	928.0	892.4	877.4
17.5°	995.1	955.4	882.9	840.4	821.3
20°	967.7	921.2	837.7	785.7	766.5
22.5°	937.6	882.9	785.7	728.2	702.2
25°	907.5	839.1	736.4	668.0	642.0
27.5°	873.3	795.3	680.3	609.1	580.4
30°	834.9	751.5	628.3	554.4	517.4
32.5°	796.6	706.3	573.5	492.8	455.8
35°	756.9	655.6	520.1	428.4	396.9
37.5°	714.5	607.7	465.4	369.6	332.6
40°	673.4	559.8	410.6	309.3	275.1
42.5°	629.6	511.9	355.9	250.5	212.2
45°	584.5	459.9	303.9	193.0	153.3
47.5°	537.9	413.4	251.9	142.4	115.0
50°	491.4	364.1	202.6	105.4	95.8
52.5°	443.5	316.2	153.3	87.6	83.5
55°	395.6	271.0	110.9	75.3	71.2
57.5°	346.3	221.7	83.5	64.3	60.2
60°	292.9	177.9	65.7	53.4	49.3
62.5°	243.6	139.6	53.4	43.8	41.1
65°	195.7	99.9	42.4	35.6	32.9
67.5°	146.5	67.1	32.9	27.4	27.4
70°	99.9	43.8	24.6	21.9	21.9
72.5°	60.2	26.0	17.8	17.8	17.8
75°	24.6	16.4	13.7	13.7	13.7
77.5°	8.2	9.6	9.6	11.0	11.0
80°	5.5	5.5	6.8	8.2	8.2
82.5°	2.7	4.1	4.1	5.5	5.5
85°	1.4	1.4	2.7	2.7	2.7
87.5°	0.0	0.0	0.0	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)