

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: P1061611

Luminaire Tested: S125RDR-S375D835-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061611
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-S375D835-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, 80 CRI LEDS
Ballast/Driver: -

Summary

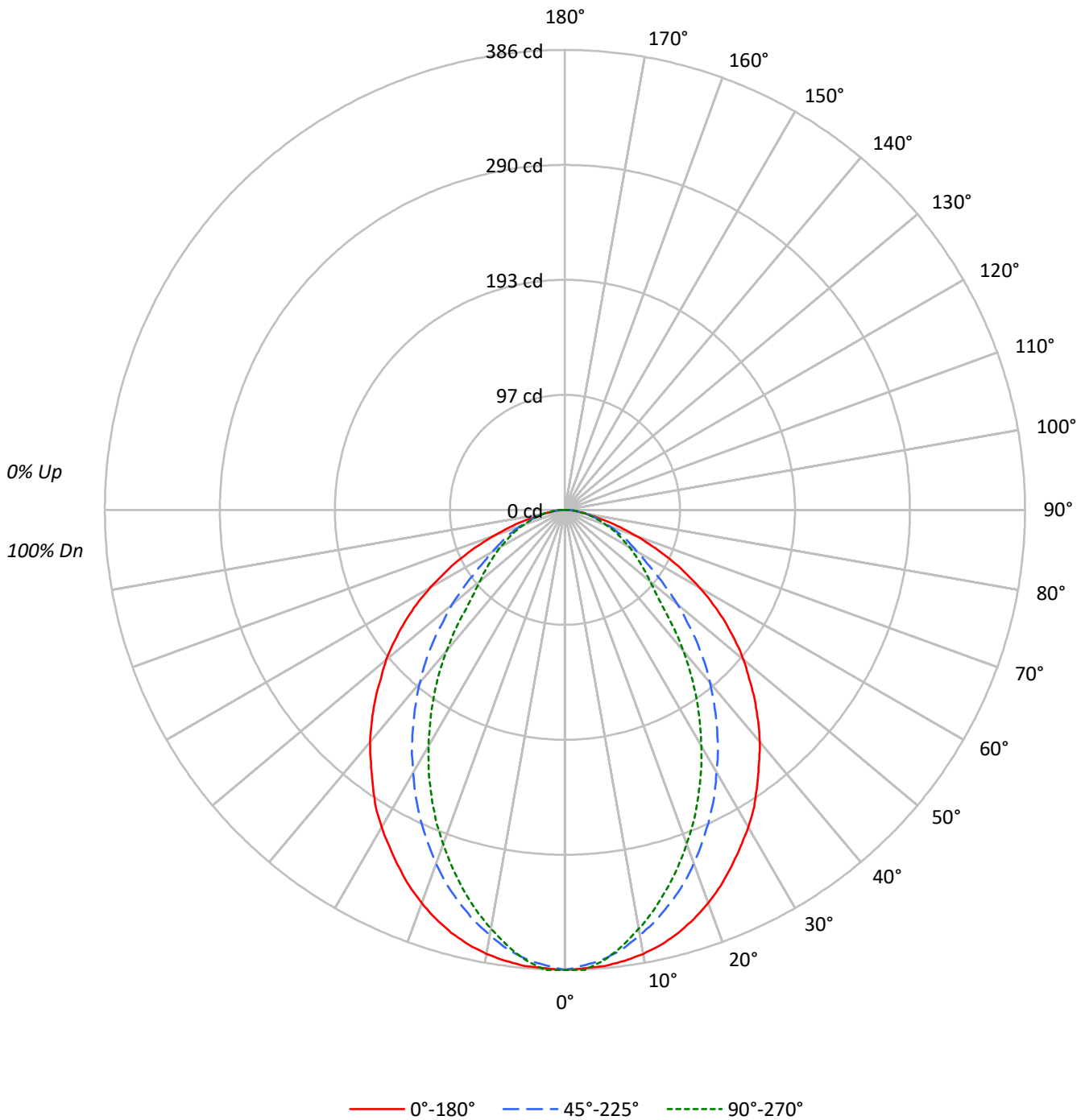
Lumens per Lamp: N/A
Luminaire Lumens: 731.2 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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										
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	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	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	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	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	65	65	65														
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57	57	57	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	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	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	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	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	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	30	30	30														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2658	2658	2658
5°	2656	2615	2622
10°	2646	2534	2497
15°	2620	2435	2351
20°	2573	2315	2186
25°	2509	2178	2012
30°	2446	2023	1819
35°	2364	1867	1613
40°	2287	1702	1390
45°	2192	1522	1138
50°	2096	1320	996
55°	1967	1102	921
60°	1794	964	859
65°	1571	881	798
70°	1274	793	743
75°	915	724	692
80°	630	646	646
85°	466	561	592

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2192 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	4.9
10°-20°	97.1	13.3
20°-30°	134.2	18.3
30°-40°	142.9	19.5
40°-50°	125.5	17.2
50°-60°	95.2	13.0
60°-70°	61.8	8.5
70°-80°	30.6	4.2
80°-90°	8.0	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°	267.1	36.5
0°-40°	410.0	56.1
0°-60°	630.8	86.3
0°-90°	731.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	731.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	386	386	386	386	386	
5°	384	384	378	380	379	36
15°	368	359	342	334	330	104
25°	330	312	287	272	265	152
35°	281	255	222	202	192	176
45°	225	194	156	128	117	174
55°	164	132	92	79	77	146
65°	96	72	54	50	49	95
75°	34	30	27	26	26	38
85°	6	7	7	7	8	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	386.0	386.0	386.0	386.0	386.0
2.5°	385.2	386.0	382.6	385.6	386.4
5°	384.3	383.5	378.4	379.7	379.3
7.5°	381.8	380.1	371.7	370.9	369.2
10°	378.4	374.3	362.5	359.6	357.1
12.5°	373.8	367.1	352.9	347.0	344.1
15°	367.6	359.2	341.6	333.6	329.8
17.5°	360.0	348.3	329.8	318.9	314.7
20°	351.2	337.4	316.0	303.4	298.4
22.5°	341.6	325.2	301.3	287.9	282.5
25°	330.3	312.2	286.7	272.0	264.9
27.5°	318.9	298.8	271.2	254.8	247.3
30°	307.6	284.6	254.4	236.8	228.8
32.5°	295.5	269.9	238.9	219.6	210.4
35°	281.2	255.2	222.1	202.0	191.9
37.5°	267.4	239.7	205.8	183.1	173.5
40°	254.4	225.1	189.4	164.7	154.6
42.5°	239.7	209.6	173.1	147.1	135.8
45°	225.1	193.6	156.3	128.2	116.9
47.5°	209.6	178.5	138.7	111.1	103.5
50°	195.7	163.0	123.2	98.1	93.0
52.5°	179.8	147.9	107.3	88.0	84.7
55°	163.9	131.6	91.8	79.2	76.7
57.5°	147.5	116.9	79.6	71.7	69.2
60°	130.3	101.8	70.0	63.7	62.4
62.5°	113.2	86.3	61.6	57.0	55.3
65°	96.4	71.7	54.1	49.9	49.0
67.5°	79.2	58.3	46.5	43.6	43.2
70°	63.3	47.4	39.4	37.7	36.9
72.5°	48.6	37.7	33.1	31.9	31.4
75°	34.4	30.2	27.2	26.4	26.0
77.5°	23.1	23.1	21.8	21.0	21.4
80°	15.9	16.8	16.3	16.3	16.3
82.5°	10.5	11.3	11.7	11.7	11.7
85°	5.9	6.7	7.1	7.1	7.5
87.5°	2.1	2.5	2.9	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)