

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: P1061608

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061608  
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-S375D835-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

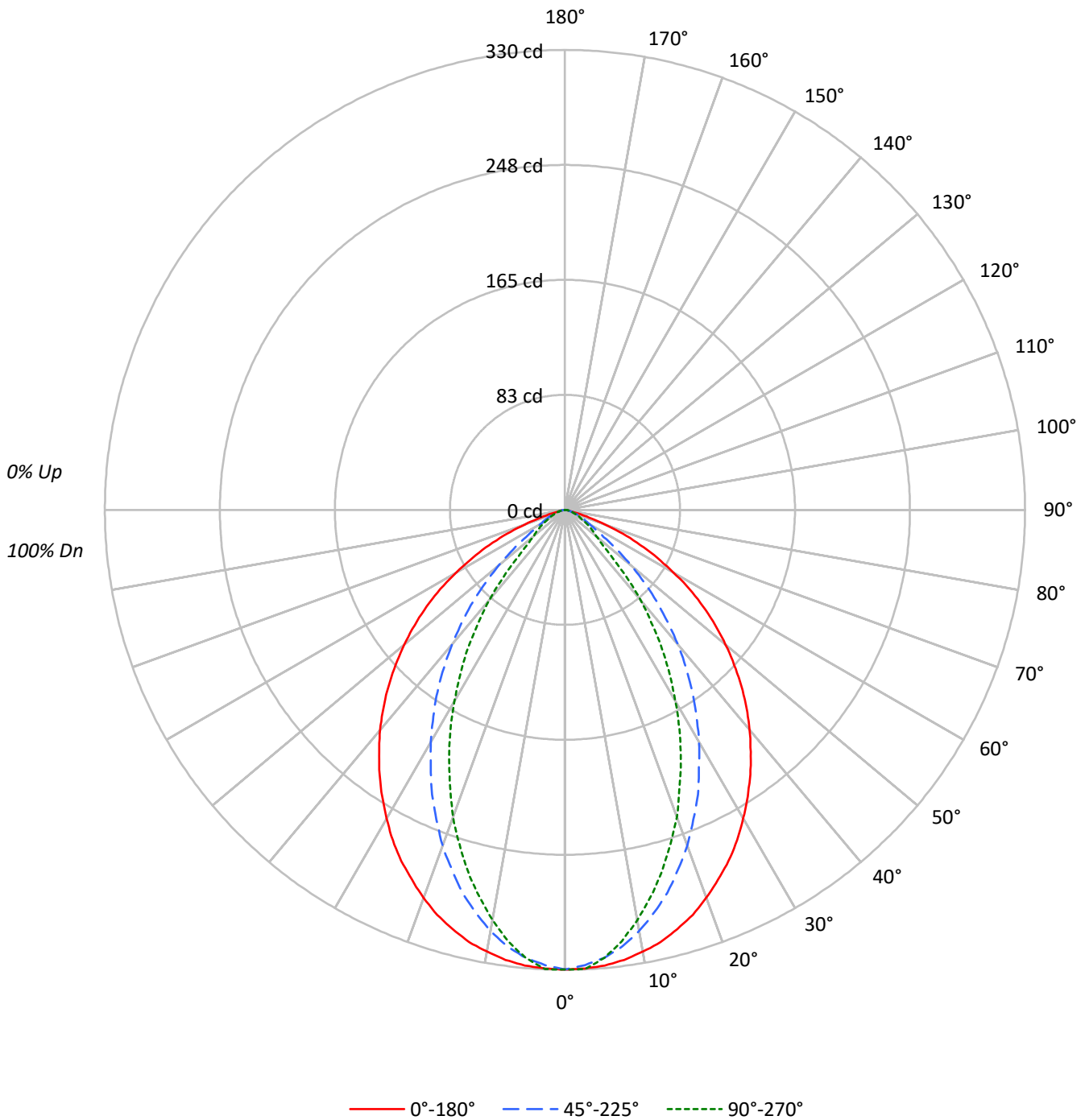
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 477.0 lumens  
Efficiency: N/A  
Efficacy: 38.2 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): 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					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				
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°	2271	2271	2271
5°	2268	2230	2230
10°	2251	2145	2089
15°	2220	2026	1915
20°	2171	1879	1720
25°	2111	1713	1494
30°	2033	1530	1259
35°	1948	1339	1021
40°	1853	1130	757
45°	1743	906	457
50°	1612	664	314
55°	1454	407	262
60°	1235	277	208
65°	976	212	165
70°	616	151	135
75°	200	112	112
80°	67	83	99
85°	32	63	63

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1743 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.5	6.4
10°-20°	80.6	16.9
20°-30°	106.0	22.2
30°-40°	104.1	21.8
40°-50°	78.8	16.5
50°-60°	47.8	10.0
60°-70°	22.5	4.7
70°-80°	5.9	1.2
80°-90°	0.9	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°	217.0	45.5
0°-40°	321.2	67.3
0°-60°	447.7	93.9
0°-90°	477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	477.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	330	330	330	330	330	
5°	328	327	323	323	323	31
15°	311	303	284	273	269	88
25°	278	257	226	204	197	128
35°	232	201	159	131	122	145
45°	179	141	93	59	47	138
55°	121	83	34	23	22	108
65°	60	31	13	11	10	59
75°	8	5	4	4	4	12
85°	0	0	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	329.8	329.8	329.8	329.8	329.8
2.5°	329.4	329.4	326.9	329.8	329.8
5°	328.2	327.3	322.7	323.1	322.7
7.5°	325.7	324.0	316.0	313.9	312.2
10°	321.9	318.5	306.8	301.8	298.8
12.5°	317.7	311.8	295.9	288.8	284.2
15°	311.4	303.0	284.2	273.3	268.7
17.5°	304.7	292.5	270.3	257.3	251.5
20°	296.3	282.1	256.5	240.6	234.7
22.5°	287.1	270.3	240.6	223.0	215.0
25°	277.9	256.9	225.5	204.5	196.6
27.5°	267.4	243.5	208.3	186.5	177.7
30°	255.7	230.1	192.4	169.7	158.4
32.5°	243.9	216.3	175.6	150.9	139.6
35°	231.8	200.8	159.3	131.2	121.5
37.5°	218.8	186.1	142.5	113.2	101.8
40°	206.2	171.4	125.7	94.7	84.2
42.5°	192.8	156.7	109.0	76.7	65.0
45°	179.0	140.8	93.0	59.1	46.9
47.5°	164.7	126.6	77.1	43.6	35.2
50°	150.5	111.5	62.0	32.3	29.3
52.5°	135.8	96.8	46.9	26.8	25.6
55°	121.1	83.0	33.9	23.1	21.8
57.5°	106.0	67.9	25.6	19.7	18.4
60°	89.7	54.5	20.1	16.3	15.1
62.5°	74.6	42.7	16.3	13.4	12.6
65°	59.9	30.6	13.0	10.9	10.1
67.5°	44.8	20.5	10.1	8.4	8.4
70°	30.6	13.4	7.5	6.7	6.7
72.5°	18.4	8.0	5.4	5.4	5.4
75°	7.5	5.0	4.2	4.2	4.2
77.5°	2.5	2.9	2.9	3.4	3.4
80°	1.7	1.7	2.1	2.5	2.5
82.5°	0.8	1.3	1.3	1.7	1.7
85°	0.4	0.4	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)