

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: P1175366

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

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D835-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

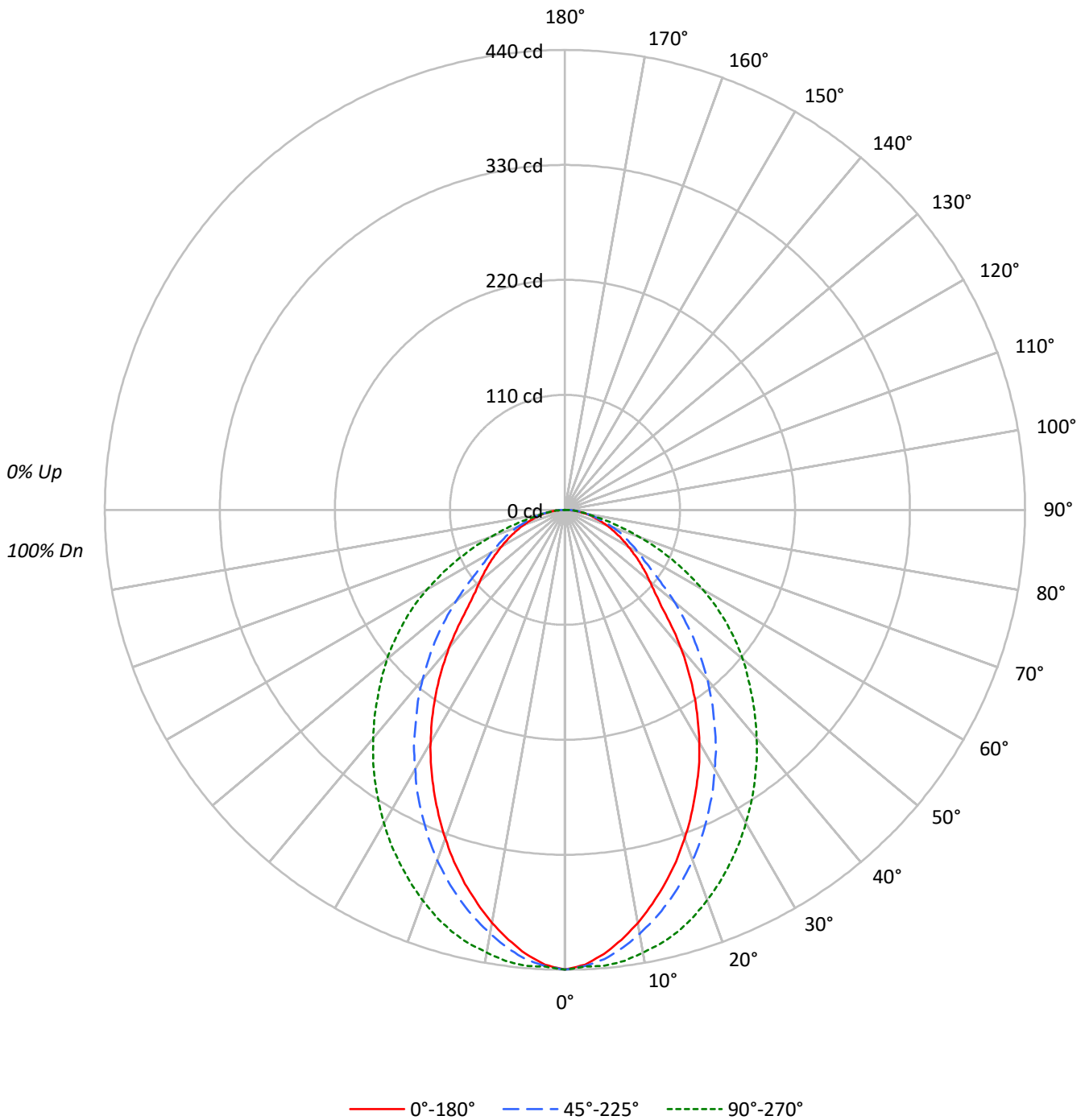
Lumens per Lamp: N/A
Luminaire Lumens: 828.5 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1175366

CATALOG NUMBER: S125RDR-S375D835-X4F0-XX-UDD-WVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1175366

CATALOG NUMBER: S125RDR-S375D835-X4F0-XX-UDD-WVL-W

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	73	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	66	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	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3028	3028	3028
5°	2949	2983	3027
10°	2806	2879	3007
15°	2637	2757	2978
20°	2451	2615	2913
25°	2252	2451	2836
30°	2042	2276	2752
35°	1807	2093	2661
40°	1550	1903	2563
45°	1273	1694	2464
50°	1132	1456	2379
55°	1044	1218	2259
60°	961	1110	2092
65°	894	1046	1849
70°	833	976	1510
75°	785	904	1133
80°	741	829	813
85°	679	829	679

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2464 cd/sqm



TEST NUMBER: P1175366

CATALOG NUMBER: S125RDR-S375D835-X4F0-XX-UDD-WVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	4.9
10°-20°	109.7	13.2
20°-30°	151.0	18.2
30°-40°	160.1	19.3
40°-50°	140.2	16.9
50°-60°	107.5	13.0
60°-70°	71.6	8.6
70°-80°	36.7	4.4
80°-90°	10.9	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°	301.4	36.4
0°-40°	461.6	55.7
0°-60°	709.3	85.6
0°-90°	828.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	828.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	440	440	440	440	440	
5°	427	432	432	435	438	40
15°	370	379	387	405	418	104
25°	296	306	323	350	373	136
35°	215	225	249	286	317	134
45°	131	142	174	217	253	103
55°	87	89	102	151	188	78
65°	55	55	64	84	114	55
75°	30	31	34	36	43	31
85°	9	10	10	10	9	10
90°	0	0	0	0	0	



TEST NUMBER: P1175366

CATALOG NUMBER: S125RDR-S375D835-X4F0-XX-UDD-WVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	439.8	439.8	439.8	439.8	439.8
2.5°	435.7	440.2	436.8	437.2	437.5
5°	426.7	432.3	431.6	434.6	437.9
7.5°	414.8	420.7	422.6	430.1	435.3
10°	401.3	408.1	411.8	423.0	430.1
12.5°	386.0	393.9	399.8	414.4	424.9
15°	370.0	378.6	386.8	405.1	417.8
17.5°	352.8	361.4	372.2	393.1	408.4
20°	334.5	343.8	356.9	379.3	397.6
22.5°	315.8	325.5	340.5	365.1	386.0
25°	296.4	306.5	322.6	349.8	373.3
27.5°	277.4	286.7	305.4	334.5	360.3
30°	256.9	266.6	286.3	318.5	346.1
32.5°	236.3	246.0	268.8	302.4	331.5
35°	215.0	225.1	249.0	285.6	316.6
37.5°	193.8	204.2	230.7	268.4	301.3
40°	172.5	183.7	211.7	251.3	285.2
42.5°	150.8	162.8	192.3	234.5	269.5
45°	130.7	141.5	174.0	217.3	253.1
47.5°	116.1	122.5	154.6	199.7	237.4
50°	105.7	108.6	135.9	182.9	222.1
52.5°	96.3	98.2	117.6	167.3	205.3
55°	87.0	88.9	101.5	150.8	188.2
57.5°	78.0	79.1	89.6	134.4	171.0
60°	69.8	70.6	80.6	118.0	151.9
62.5°	62.3	62.7	72.1	101.2	132.9
65°	54.9	55.3	64.2	84.4	113.5
67.5°	48.2	48.2	56.7	69.1	94.8
70°	41.4	41.4	48.5	56.0	75.0
72.5°	35.5	36.2	41.1	45.2	58.6
75°	29.5	31.4	34.0	35.8	42.6
77.5°	23.9	26.1	27.3	28.0	28.4
80°	18.7	20.2	20.9	21.3	20.5
82.5°	13.8	14.9	15.3	15.3	14.2
85°	8.6	9.7	10.5	10.1	8.6
87.5°	4.1	5.6	6.0	5.2	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)