

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: P1175411

Luminaire Tested: S125RDR-H375D835-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175411
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-H375D835-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

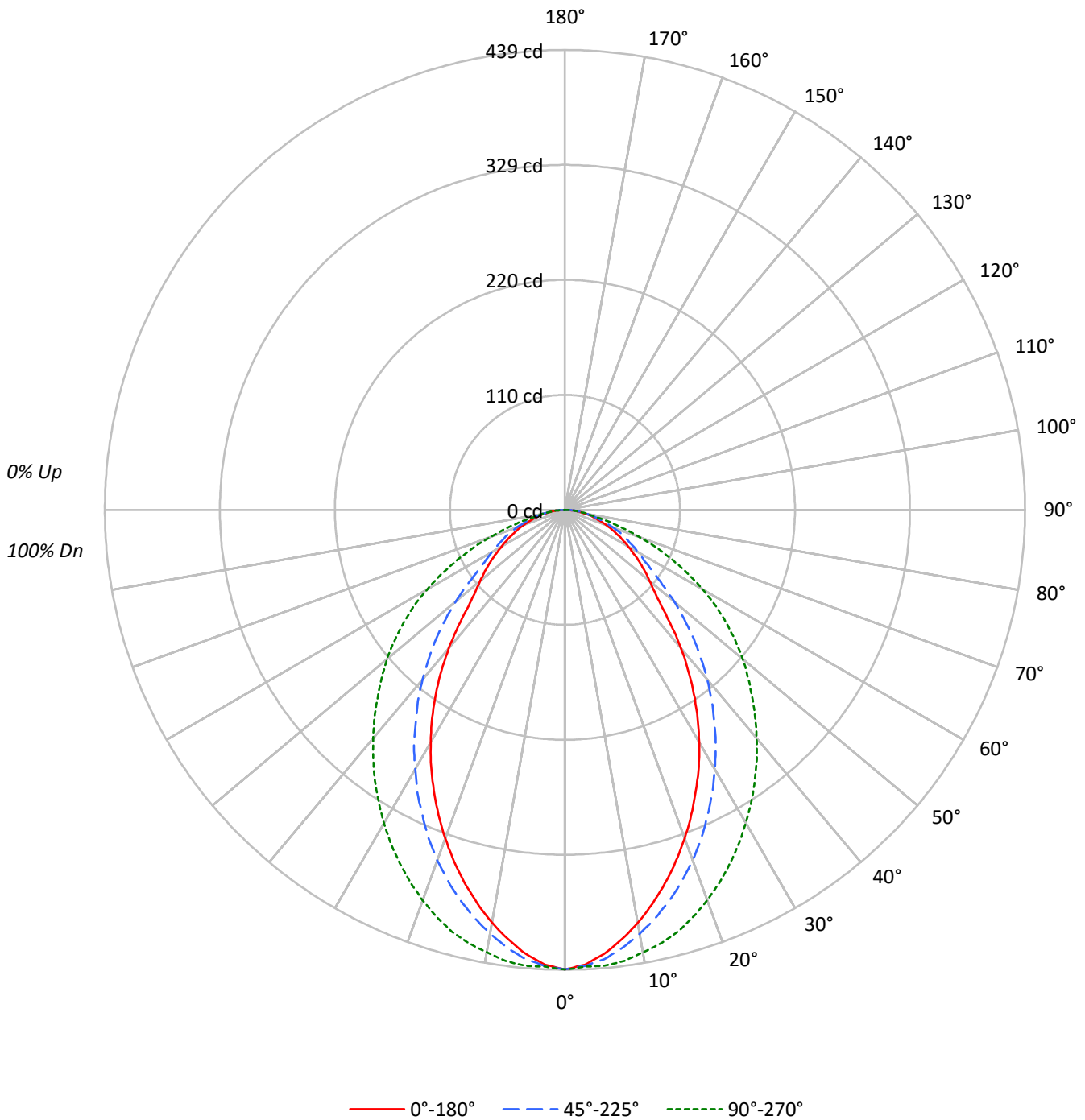
Lumens per Lamp: N/A
Luminaire Lumens: 826.5 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3021	3021	3021
5°	2942	2975	3019
10°	2799	2872	2999
15°	2631	2750	2970
20°	2445	2608	2906
25°	2246	2445	2829
30°	2037	2271	2744
35°	1803	2088	2654
40°	1547	1898	2557
45°	1269	1689	2459
50°	1129	1452	2374
55°	1042	1216	2253
60°	958	1107	2088
65°	891	1044	1844
70°	831	974	1508
75°	782	902	1131
80°	737	829	813
85°	679	822	679

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2459 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	4.9
10°-20°	109.5	13.2
20°-30°	150.6	18.2
30°-40°	159.7	19.3
40°-50°	139.8	16.9
50°-60°	107.3	13.0
60°-70°	71.5	8.6
70°-80°	36.6	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°	300.7	36.4
0°-40°	460.4	55.7
0°-60°	707.5	85.6
0°-90°	826.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	826.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	439	439	439	439	439	
5°	426	431	430	434	437	40
15°	369	378	386	404	417	103
25°	296	306	322	349	372	136
35°	214	225	248	285	316	134
45°	130	141	174	217	252	103
55°	87	89	101	150	188	78
65°	55	55	64	84	113	55
75°	29	31	34	36	42	31
85°	9	10	10	10	9	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	438.7	438.7	438.7	438.7	438.7
2.5°	434.6	439.1	435.7	436.1	436.5
5°	425.7	431.3	430.5	433.5	436.8
7.5°	413.8	419.7	421.6	429.0	434.2
10°	400.3	407.1	410.8	421.9	429.0
12.5°	385.1	392.9	398.9	413.4	423.8
15°	369.1	377.6	385.8	404.1	416.7
17.5°	351.9	360.5	371.3	392.2	407.4
20°	333.7	343.0	356.0	378.4	396.6
22.5°	315.1	324.7	339.6	364.2	385.1
25°	295.7	305.8	321.8	349.0	372.4
27.5°	276.7	286.0	304.6	333.7	359.4
30°	256.2	265.9	285.6	317.7	345.2
32.5°	235.7	245.4	268.1	301.7	330.7
35°	214.5	224.6	248.4	284.9	315.8
37.5°	193.3	203.7	230.2	267.8	300.5
40°	172.1	183.2	211.2	250.6	284.5
42.5°	150.5	162.4	191.8	233.9	268.9
45°	130.3	141.1	173.5	216.7	252.5
47.5°	115.8	122.2	154.2	199.2	236.9
50°	105.4	108.4	135.6	182.5	221.6
52.5°	96.1	97.9	117.3	166.8	204.8
55°	86.8	88.6	101.3	150.5	187.7
57.5°	77.8	79.0	89.4	134.1	170.6
60°	69.6	70.4	80.4	117.7	151.6
62.5°	62.2	62.6	71.9	100.9	132.6
65°	54.7	55.1	64.1	84.2	113.2
67.5°	48.0	48.0	56.6	68.9	94.6
70°	41.3	41.3	48.4	55.9	74.9
72.5°	35.4	36.1	41.0	45.1	58.5
75°	29.4	31.3	33.9	35.8	42.5
77.5°	23.8	26.1	27.2	27.9	28.3
80°	18.6	20.1	20.9	21.2	20.5
82.5°	13.8	14.9	15.3	15.3	14.2
85°	8.6	9.7	10.4	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)