

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S125RDRP-H375D835-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

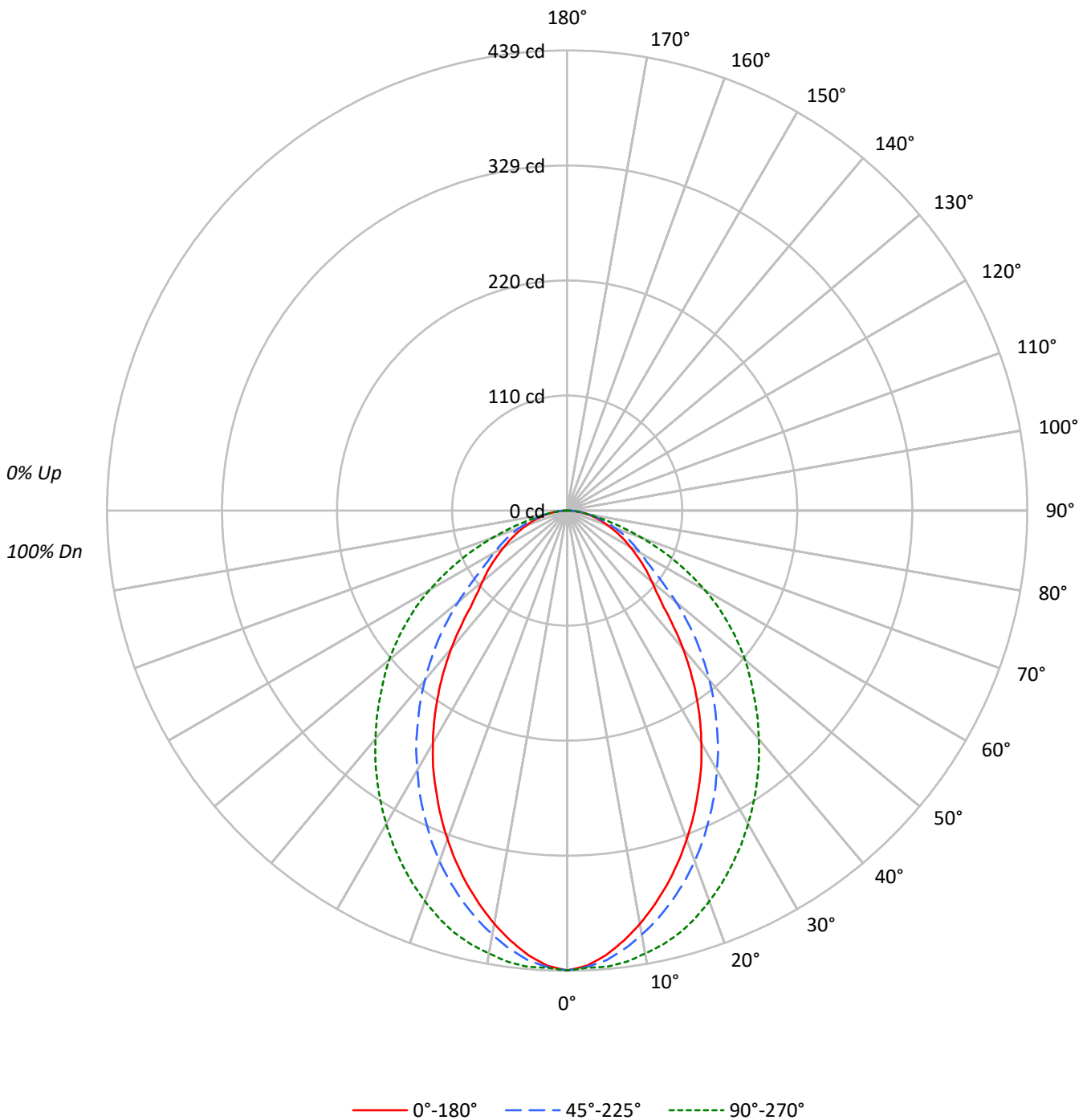
Lumens per Lamp: N/A
Luminaire Lumens: 826.5 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): 120
Input Current (A_{in}): 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



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	10.46	11.96	10.82	12.27	12.59	14.48	15.98	14.85	16.29	16.61
	3H	12.04	13.39	12.42	13.71	14.08	15.87	17.21	16.25	17.54	17.90
	4H	12.69	13.95	13.09	14.29	14.67	16.28	17.54	16.68	17.89	18.26
	6H	13.19	14.36	13.61	14.72	15.12	16.48	17.65	16.89	18.01	18.41
	8H	13.38	14.48	13.80	14.87	15.27	16.54	17.65	16.97	18.04	18.44
	12H	13.50	14.56	13.93	14.94	15.37	16.57	17.63	17.00	18.02	18.45
4H	2H	11.23	12.49	11.63	12.84	13.22	14.61	15.87	15.01	16.22	16.60
	3H	13.01	14.05	13.42	14.45	14.86	16.18	17.23	16.59	17.63	18.03
	4H	13.78	14.72	14.21	15.13	15.57	16.69	17.63	17.13	18.05	18.49
	6H	14.41	15.23	14.87	15.68	16.14	17.02	17.84	17.48	18.28	18.74
	8H	14.64	15.41	15.11	15.85	16.32	17.12	17.88	17.58	18.33	18.80
	12H	14.82	15.50	15.30	15.98	16.45	17.19	17.88	17.67	18.35	18.83
8H	4H	14.16	14.93	14.62	15.37	15.84	16.79	17.56	17.26	18.00	18.47
	6H	14.94	15.57	15.43	16.06	16.54	17.21	17.84	17.71	18.34	18.81
	8H	15.25	15.82	15.77	16.33	16.82	17.37	17.94	17.89	18.45	18.94
	12H	15.52	16.02	16.03	16.51	17.08	17.51	18.01	18.02	18.50	19.07
12H	4H	14.20	14.88	14.68	15.36	15.83	16.79	17.48	17.27	17.95	18.43
	6H	15.01	15.58	15.53	16.09	16.58	17.22	17.79	17.74	18.30	18.79
	8H	15.40	15.90	15.91	16.39	16.95	17.43	17.94	17.94	18.43	18.99