

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: P1061621

Luminaire Tested: S125RDRP-S375D840-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D840-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

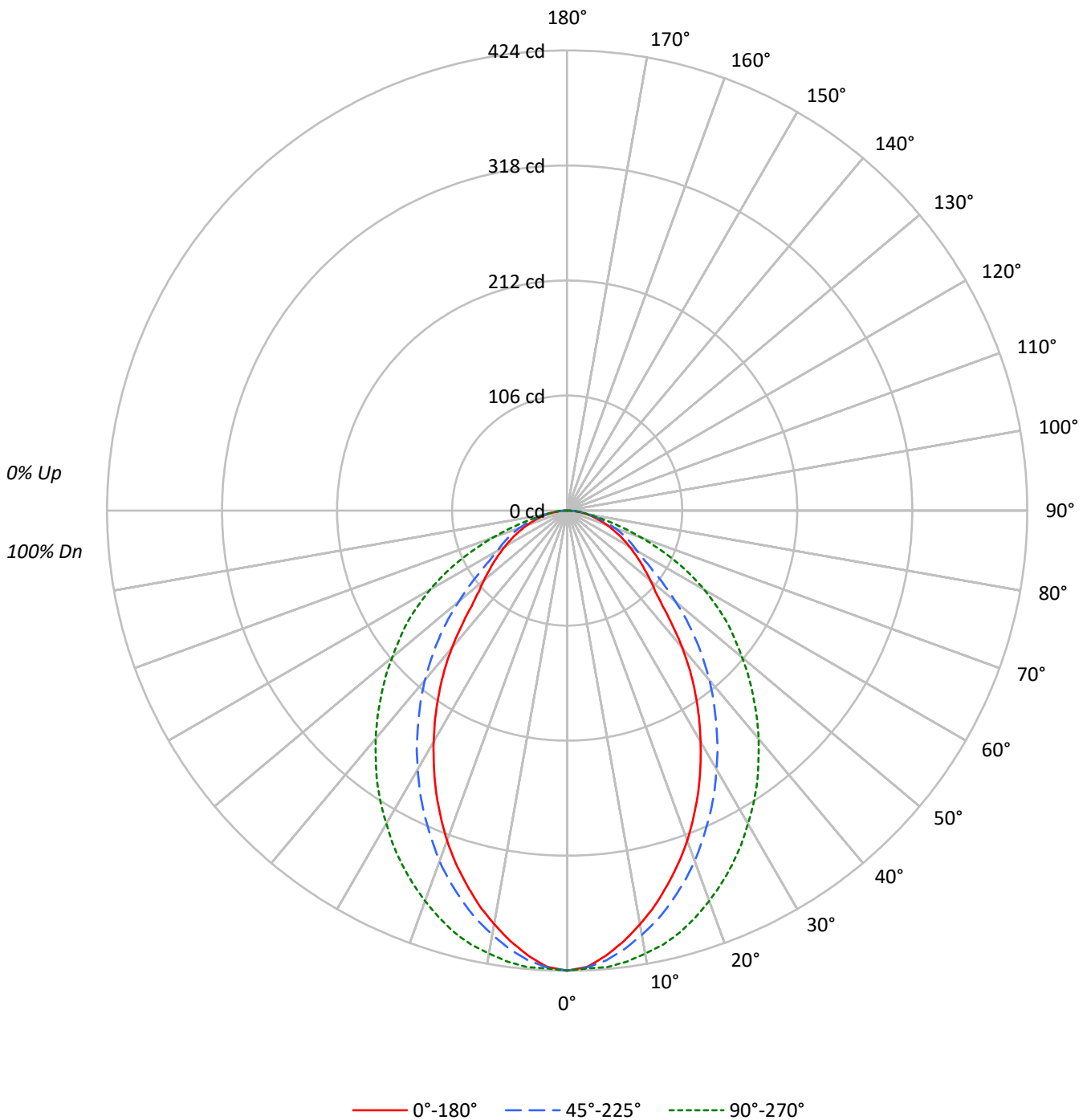
Lumens per Lamp: N/A
Luminaire Lumens: 794.6 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	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	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2919	2919	2919
5°	2845	2874	2918
10°	2706	2774	2898
15°	2545	2656	2868
20°	2370	2519	2805
25°	2171	2358	2734
30°	1956	2188	2649
35°	1730	2011	2566
40°	1484	1831	2466
45°	1212	1629	2362
50°	1075	1397	2254
55°	986	1158	2161
60°	910	1026	2012
65°	849	987	1794
70°	793	938	1466
75°	732	878	1080
80°	690	821	789
85°	632	806	671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2362 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	4.9
10°-20°	105.7	13.3
20°-30°	145.2	18.3
30°-40°	153.9	19.4
40°-50°	134.3	16.9
50°-60°	102.1	12.8
60°-70°	68.4	8.6
70°-80°	35.2	4.4
80°-90°	10.6	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°	290.1	36.5
0°-40°	444.0	55.9
0°-60°	680.4	85.6
0°-90°	794.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	794.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	424	424	424	424	424	
5°	412	416	416	419	422	39
15°	357	364	373	389	402	100
25°	286	295	310	336	360	131
35°	206	218	239	273	305	128
45°	124	137	167	207	243	98
55°	82	85	96	142	180	74
65°	52	53	61	81	110	52
75°	28	29	33	35	41	29
85°	8	10	10	9	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	423.9	423.9	423.9	423.9	423.9
2.5°	420.9	423.9	421.3	421.3	422.2
5°	411.6	415.8	415.8	418.8	422.2
7.5°	400.1	404.8	407.3	414.1	419.2
10°	387.0	392.1	396.8	406.9	414.5
12.5°	373.0	378.6	385.8	398.9	409.5
15°	357.0	363.7	372.6	389.1	402.3
17.5°	340.9	347.6	358.7	378.1	392.9
20°	323.5	330.7	343.8	365.0	382.8
22.5°	304.9	312.9	326.9	351.0	371.8
25°	285.8	294.7	310.4	336.2	359.9
27.5°	265.9	276.5	293.4	321.0	347.2
30°	246.0	256.6	275.2	305.3	333.2
32.5°	226.1	237.5	257.9	289.6	319.7
35°	205.8	217.6	239.2	273.1	305.3
37.5°	185.9	197.7	221.9	257.0	289.6
40°	165.1	177.4	203.7	240.5	274.4
42.5°	144.0	157.1	185.5	223.6	258.7
45°	124.5	136.8	167.3	207.1	242.6
47.5°	110.1	118.1	149.0	190.1	227.0
50°	100.4	104.6	130.4	173.6	210.4
52.5°	90.6	94.0	113.1	156.7	194.8
55°	82.1	84.7	96.5	141.9	180.0
57.5°	73.7	76.2	83.8	127.0	162.6
60°	66.1	68.2	74.5	111.4	146.1
62.5°	58.9	60.6	67.3	96.5	128.3
65°	52.1	53.4	60.6	80.9	110.1
67.5°	45.3	46.6	53.8	66.1	90.6
70°	39.4	39.8	46.6	53.8	72.8
72.5°	33.5	33.9	39.4	43.6	55.9
75°	27.5	29.2	33.0	35.1	40.6
77.5°	22.4	24.6	26.7	27.5	27.5
80°	17.4	19.9	20.7	20.7	19.9
82.5°	12.7	14.8	15.2	14.4	13.5
85°	8.0	10.2	10.2	9.3	8.5
87.5°	3.8	5.5	5.5	5.1	3.8
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	10.33	11.82	10.69	12.14	12.45	14.25	15.75	14.62	16.06	16.38
	3H	11.90	13.24	12.28	13.57	13.93	15.68	17.02	16.06	17.35	17.71
	4H	12.51	13.77	12.91	14.12	14.50	16.09	17.35	16.49	17.70	18.08
	6H	13.01	14.17	13.42	14.54	14.93	16.31	17.47	16.72	17.84	18.23
	8H	13.18	14.29	13.61	14.68	15.08	16.37	17.47	16.79	17.86	18.26
	12H	13.30	14.36	13.73	14.75	15.17	16.40	17.46	16.83	17.84	18.27
4H	2H	11.07	12.32	11.47	12.67	13.05	14.38	15.64	14.78	15.99	16.37
	3H	12.84	13.89	13.26	14.29	14.69	15.99	17.04	16.40	17.44	17.84
	4H	13.58	14.52	14.01	14.94	15.38	16.52	17.46	16.95	17.87	18.31
	6H	14.22	15.03	14.67	15.48	15.94	16.86	17.68	17.32	18.12	18.58
	8H	14.44	15.21	14.91	15.65	16.12	16.96	17.72	17.42	18.17	18.63
	12H	14.62	15.30	15.10	15.78	16.25	17.03	17.71	17.51	18.19	18.66
8H	4H	13.98	14.75	14.44	15.19	15.66	16.62	17.39	17.09	17.83	18.30
	6H	14.77	15.40	15.26	15.89	16.37	17.06	17.69	17.56	18.19	18.66
	8H	15.09	15.66	15.61	16.17	16.66	17.22	17.79	17.73	18.30	18.79
	12H	15.36	15.87	15.87	16.36	16.92	17.36	17.86	17.87	18.35	18.91
12H	4H	14.02	14.71	14.51	15.19	15.66	16.62	17.31	17.11	17.79	18.26
	6H	14.85	15.42	15.36	15.93	16.42	17.08	17.65	17.59	18.16	18.64
	8H	15.24	15.75	15.75	16.24	16.80	17.29	17.79	17.80	18.28	18.84