

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: P1061525

Luminaire Tested: S125RDRP-S1270D835-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D835-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

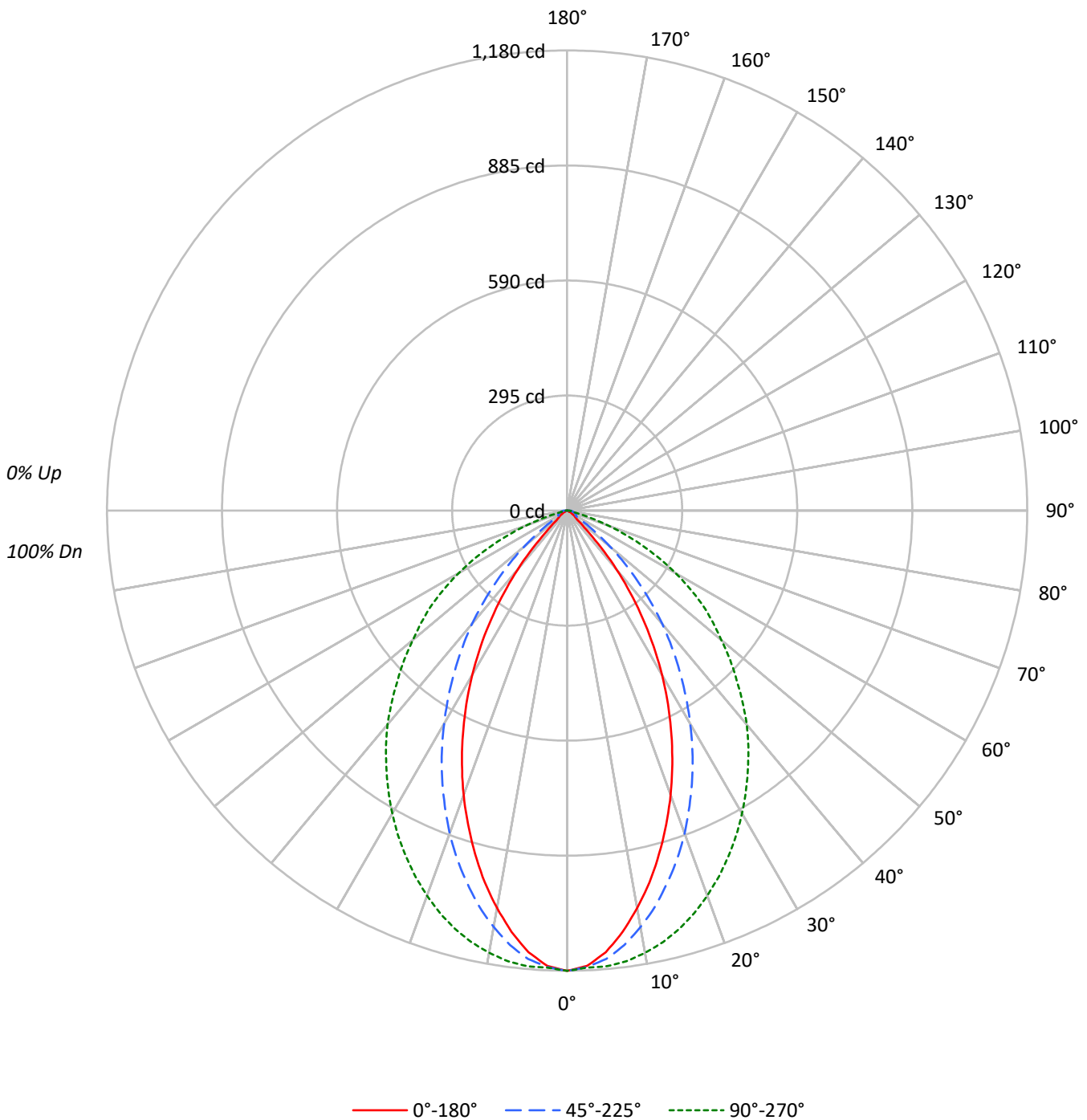
Lumens per Lamp: N/A
Luminaire Lumens: 1518.0 lumens
Efficiency: N/A
Efficacy: 36.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49					49			
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42					42			
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8126	8126	8126
5°	7856	7976	8107
10°	7235	7581	8048
15°	6496	7055	7915
20°	5687	6454	7699
25°	4803	5764	7431
30°	3871	5015	7130
35°	2847	4227	6792
40°	1777	3409	6440
45°	665	2491	5986
50°	312	1556	5527
55°	227	646	5113
60°	160	340	4423
65°	94	402	3504
70°	89	469	2224
75°	117	463	697
80°	174	575	519
85°	348	916	687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5986 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	7.1
10°-20°	280.2	18.5
20°-30°	356.9	23.5
30°-40°	332.2	21.9
40°-50°	227.6	15.0
50°-60°	125.3	8.3
60°-70°	59.3	3.9
70°-80°	18.7	1.2
80°-90°	9.6	0.6
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°	745.3	49.1
0°-40°	1077.5	71.0
0°-60°	1430.4	94.2
0°-90°	1518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1137	1151	1154	1163	1173	105
15°	911	940	990	1064	1110	254
25°	632	672	759	881	978	289
35°	339	387	503	669	808	210
45°	68	115	256	454	615	65
55°	19	22	54	253	426	17
65°	6	7	25	93	215	7
75°	4	7	17	19	26	5
85°	4	10	12	10	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.2	1180.2	1180.2	1180.2	1180.2
2.5°	1168.6	1180.2	1171.5	1171.5	1172.9
5°	1136.6	1151.1	1154.0	1162.7	1172.9
7.5°	1090.1	1109.0	1123.5	1148.2	1165.7
10°	1034.8	1058.1	1084.3	1125.0	1151.1
12.5°	976.7	1001.4	1040.7	1097.3	1133.7
15°	911.3	940.4	989.8	1063.9	1110.4
17.5°	844.4	876.4	937.5	1024.7	1082.8
20°	776.1	809.6	880.8	978.2	1050.8
22.5°	704.9	741.3	819.7	930.2	1016.0
25°	632.2	671.5	758.7	880.8	978.2
27.5°	559.6	600.3	696.2	829.9	938.9
30°	486.9	529.1	630.8	777.6	896.8
32.5°	412.8	459.3	566.8	725.3	853.2
35°	338.7	386.6	502.9	668.6	808.1
37.5°	266.0	315.4	440.4	614.8	763.1
40°	197.7	247.1	379.3	561.0	716.5
42.5°	127.9	180.2	315.4	505.8	665.7
45°	68.3	114.8	255.8	453.5	614.8
47.5°	36.3	61.0	199.1	401.1	566.8
50°	29.1	33.4	145.3	348.8	516.0
52.5°	23.3	26.2	93.0	295.0	470.9
55°	18.9	21.8	53.8	252.9	425.9
57.5°	14.5	17.4	30.5	210.7	373.5
60°	11.6	13.1	24.7	168.6	321.2
62.5°	7.3	10.2	24.7	130.8	268.9
65°	5.8	7.3	24.7	93.0	215.1
67.5°	5.8	5.8	24.7	61.0	161.3
70°	4.4	4.4	23.3	39.2	110.5
72.5°	4.4	4.4	20.3	26.2	64.0
75°	4.4	7.3	17.4	18.9	26.2
77.5°	4.4	11.6	16.0	16.0	14.5
80°	4.4	11.6	14.5	13.1	13.1
82.5°	4.4	11.6	11.6	11.6	10.2
85°	4.4	10.2	11.6	10.2	8.7
87.5°	4.4	10.2	10.2	10.2	5.8
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	0.00	0.00	0.00	0.00	0.00	16.32	17.61	16.69	17.92	18.24
	3H	0.00	0.00	0.00	0.00	0.12	17.11	18.25	17.49	18.58	18.94
	4H	0.00	0.00	0.00	0.19	0.58	17.14	18.19	17.54	18.55	18.93
	6H	0.02	0.99	0.44	1.36	1.76	17.09	18.06	17.51	18.43	18.83
	8H	0.70	1.62	1.13	2.01	2.42	17.07	17.99	17.50	18.38	18.78
	12H	1.46	2.34	1.89	2.72	3.15	17.05	17.93	17.48	18.31	18.74
4H	2H	0.10	1.15	0.50	1.51	1.89	16.11	17.16	16.51	17.51	17.90
	3H	0.97	1.84	1.39	2.24	2.65	16.93	17.80	17.35	18.20	18.60
	4H	1.58	2.35	2.01	2.77	3.21	16.97	17.74	17.40	18.16	18.60
	6H	3.08	3.74	3.54	4.19	4.65	16.96	17.62	17.42	18.07	18.53
	8H	3.82	4.44	4.29	4.89	5.36	16.94	17.56	17.41	18.01	18.48
	12H	4.57	5.11	5.05	5.60	6.07	16.94	17.49	17.43	17.97	18.45
8H	4H	3.61	4.23	4.09	4.68	5.15	16.85	17.47	17.32	17.92	18.39
	6H	5.36	5.86	5.86	6.36	6.84	16.86	17.36	17.36	17.86	18.34
	8H	6.31	6.76	6.83	7.28	7.77	16.86	17.32	17.39	17.83	18.32
	12H	7.25	7.65	7.77	8.15	8.72	16.91	17.31	17.42	17.80	18.38
12H	4H	3.92	4.46	4.40	4.95	5.42	16.81	17.36	17.30	17.84	18.32
	6H	5.81	6.27	6.34	6.78	7.28	16.81	17.26	17.33	17.78	18.27
	8H	6.95	7.35	7.46	7.84	8.41	16.85	17.25	17.37	17.75	18.32