

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: P1061530

Luminaire Tested: S125RDRP-S1270D835-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D835-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

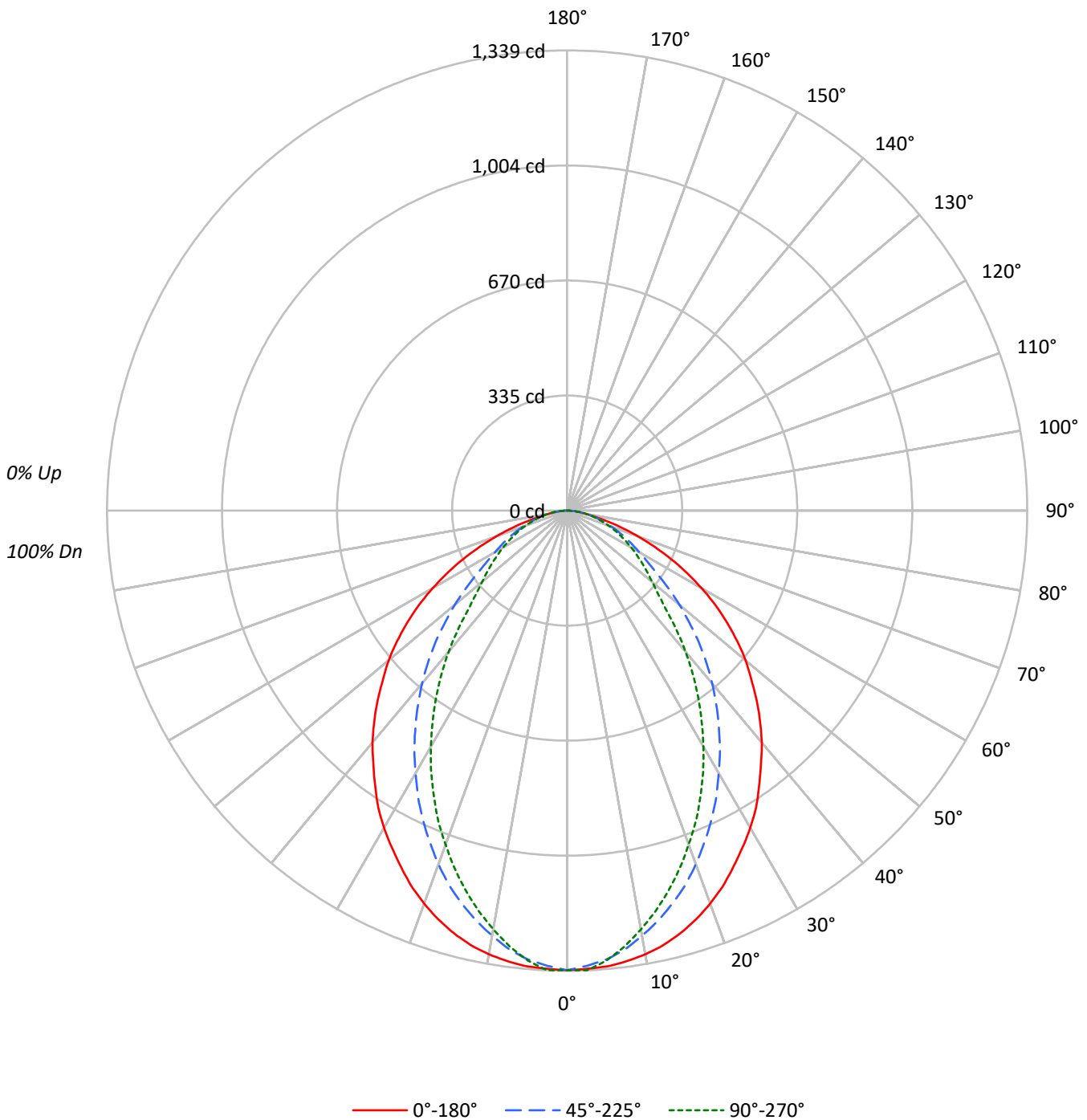
Lumens per Lamp: N/A
Luminaire Lumens: 2533.6 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36
9	61	48	41	35	60	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°	9208	9208	9208
5°	9203	9063	9083
10°	9168	8782	8650
15°	9078	8436	8147
20°	8916	8022	7576
25°	8693	7546	6973
30°	8474	7008	6304
35°	8190	6469	5590
40°	7923	5900	4816
45°	7593	5275	3946
50°	7265	4573	3453
55°	6816	3817	3189
60°	6219	3339	2980
65°	5441	3051	2768
70°	4415	2748	2573
75°	3168	2511	2394
80°	2189	2244	2244
85°	1604	1951	2062

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7593 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	4.9
10°-20°	336.3	13.3
20°-30°	464.9	18.3
30°-40°	495.2	19.5
40°-50°	435.0	17.2
50°-60°	329.8	13.0
60°-70°	214.2	8.5
70°-80°	106.1	4.2
80°-90°	27.8	1.1
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°	925.6	36.5
0°-40°	1420.7	56.1
0°-60°	2185.6	86.3
0°-90°	2533.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2533.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1332	1329	1311	1316	1314	126
15°	1274	1244	1184	1156	1143	359
25°	1144	1082	993	942	918	527
35°	974	884	770	700	665	610
45°	780	671	542	444	405	601
55°	568	456	318	274	266	507
65°	334	248	187	173	170	330
75°	119	105	94	92	90	133
85°	20	23	25	25	26	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1337.4	1337.4	1337.4	1337.4	1337.4
2.5°	1334.5	1337.4	1325.8	1336.0	1338.9
5°	1331.6	1328.7	1311.3	1315.7	1314.2
7.5°	1322.9	1317.1	1288.1	1285.2	1279.4
10°	1311.3	1296.8	1256.1	1246.0	1237.2
12.5°	1295.3	1272.1	1222.7	1202.4	1192.2
15°	1273.5	1244.5	1183.5	1155.9	1142.9
17.5°	1247.4	1206.7	1142.9	1105.1	1090.6
20°	1216.9	1169.0	1094.9	1051.4	1033.9
22.5°	1183.5	1126.9	1044.1	997.6	978.8
25°	1144.3	1081.9	993.3	942.5	917.8
27.5°	1105.1	1035.4	939.6	882.9	856.8
30°	1065.9	986.0	881.5	820.5	792.9
32.5°	1023.8	935.2	827.7	760.9	729.0
35°	974.4	884.4	769.6	699.9	665.1
37.5°	926.5	830.6	713.0	634.6	601.2
40°	881.5	779.8	656.4	570.7	535.8
42.5°	830.6	726.1	599.7	509.7	470.5
45°	779.8	670.9	541.7	444.4	405.2
47.5°	726.1	618.6	480.7	384.8	358.7
50°	678.2	564.9	426.9	339.8	322.4
52.5°	623.0	512.6	371.8	305.0	293.3
55°	567.8	456.0	318.0	274.5	265.7
57.5°	511.2	405.2	275.9	248.3	239.6
60°	451.6	352.9	242.5	220.7	216.4
62.5°	392.1	299.1	213.5	197.5	191.7
65°	334.0	248.3	187.3	172.8	169.9
67.5°	274.5	201.9	161.2	151.0	149.6
70°	219.3	164.1	136.5	130.7	127.8
72.5°	168.5	130.7	114.7	110.4	108.9
75°	119.1	104.6	94.4	91.5	90.0
77.5°	79.9	79.9	75.5	72.6	74.1
80°	55.2	58.1	56.6	56.6	56.6
82.5°	36.3	39.2	40.7	40.7	40.7
85°	20.3	23.2	24.7	24.7	26.1
87.5°	7.3	8.7	10.2	11.6	11.6
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	18.27	19.76	18.63	20.07	20.39	14.51	16.00	14.87	16.31	16.63
	3H	19.58	20.92	19.96	21.24	21.61	16.09	17.43	16.47	17.76	18.12
	4H	19.95	21.20	20.35	21.55	21.93	16.69	17.95	17.09	18.30	18.67
	6H	20.12	21.28	20.54	21.65	22.04	17.17	18.32	17.58	18.69	19.08
	8H	20.16	21.26	20.59	21.65	22.05	17.33	18.43	17.75	18.82	19.22
	12H	20.17	21.23	20.60	21.61	22.04	17.44	18.49	17.87	18.87	19.30
4H	2H	18.38	19.63	18.78	19.98	20.36	15.17	16.42	15.57	16.77	17.15
	3H	19.87	20.90	20.28	21.30	21.71	16.95	17.99	17.36	18.39	18.79
	4H	20.34	21.28	20.78	21.69	22.13	17.67	18.60	18.10	19.02	19.46
	6H	20.63	21.44	21.09	21.88	22.34	18.26	19.07	18.72	19.51	19.97
	8H	20.70	21.45	21.16	21.90	22.37	18.46	19.22	18.93	19.67	20.13
	12H	20.74	21.41	21.22	21.89	22.36	18.62	19.29	19.10	19.77	20.24
8H	4H	20.42	21.18	20.89	21.63	22.09	17.98	18.74	18.44	19.18	19.65
	6H	20.79	21.41	21.29	21.91	22.38	18.69	19.31	19.18	19.80	20.28
	8H	20.90	21.47	21.42	21.98	22.46	18.97	19.53	19.48	20.04	20.53
	12H	20.99	21.49	21.50	21.98	22.54	19.20	19.69	19.71	20.18	20.75
12H	4H	20.42	21.09	20.90	21.57	22.05	18.01	18.68	18.49	19.16	19.63
	6H	20.79	21.35	21.31	21.86	22.35	18.74	19.30	19.25	19.81	20.30
	8H	20.95	21.45	21.46	21.94	22.50	19.07	19.57	19.58	20.06	20.63