

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: P1175402

Luminaire Tested: S125RDRP-H1270D835-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175402
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-H1270D835-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

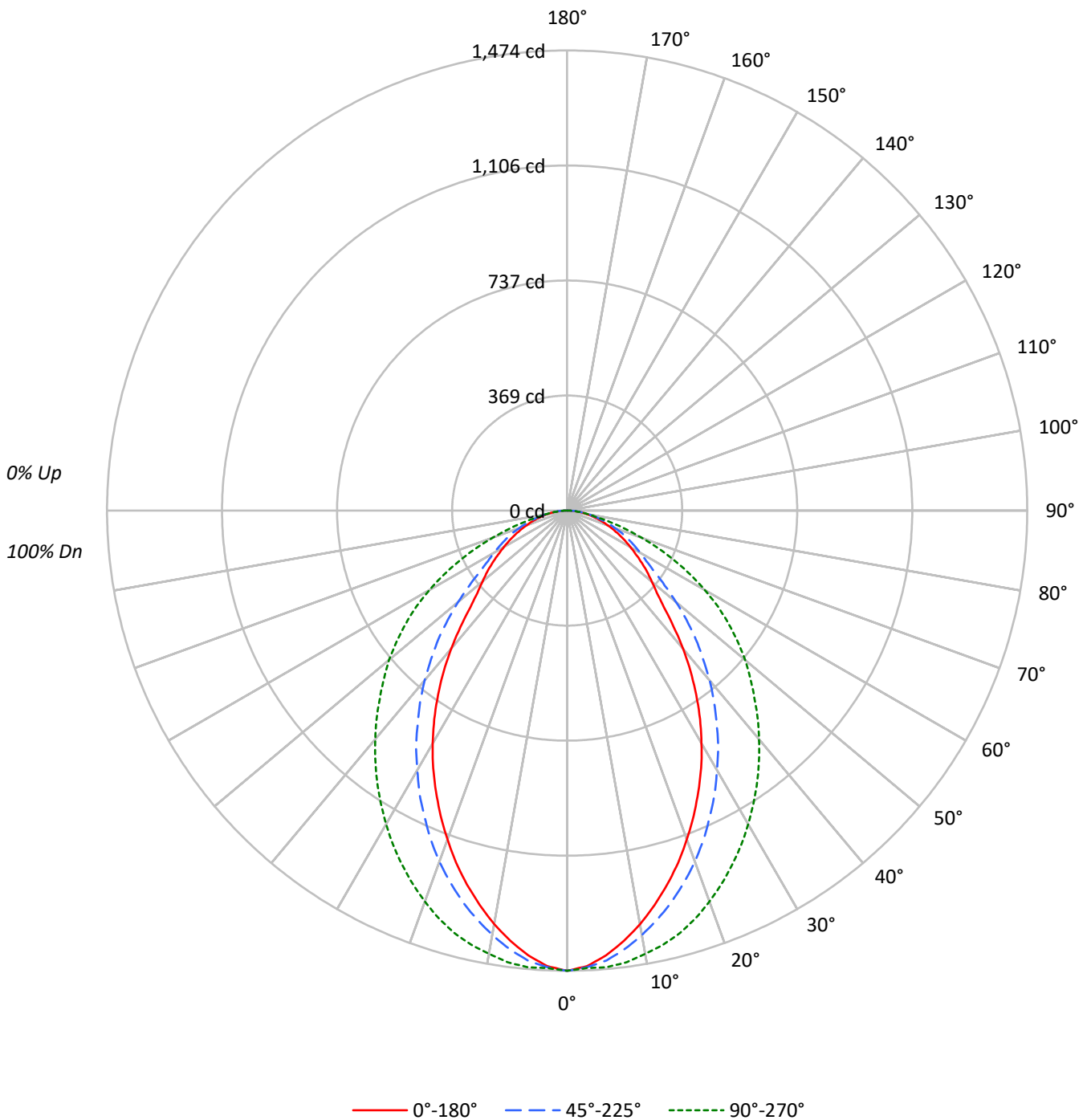
Lumens per Lamp: N/A
Luminaire Lumens: 2777.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	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	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°	10150	10150	10150
5°	9886	9998	10145
10°	9405	9650	10078
15°	8840	9241	9981
20°	8215	8765	9765
25°	7548	8213	9506
30°	6844	7631	9222
35°	6059	7015	8919
40°	5196	6377	8593
45°	4265	5678	8261
50°	3793	4879	7975
55°	3500	4086	7571
60°	3222	3722	7013
65°	2996	3506	6197
70°	2796	3275	5063
75°	2631	3030	3796
80°	2482	2780	2728
85°	2275	2765	2275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8261 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	4.9
10°-20°	367.8	13.2
20°-30°	506.0	18.2
30°-40°	536.7	19.3
40°-50°	469.8	16.9
50°-60°	360.5	13.0
60°-70°	240.1	8.6
70°-80°	123.1	4.4
80°-90°	36.5	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°	1010.3	36.4
0°-40°	1547.0	55.7
0°-60°	2377.3	85.6
0°-90°	2777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2777.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1430	1449	1446	1456	1468	134
15°	1240	1269	1296	1358	1400	348
25°	994	1027	1081	1172	1251	456
35°	721	754	835	957	1061	449
45°	438	474	583	728	848	346
55°	292	298	340	506	631	261
65°	184	185	215	283	380	183
75°	99	105	114	120	143	105
85°	29	32	35	34	29	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.1	1474.1	1474.1	1474.1	1474.1
2.5°	1460.3	1475.3	1464.0	1465.3	1466.6
5°	1430.3	1449.0	1446.5	1456.5	1467.8
7.5°	1390.2	1410.2	1416.5	1441.5	1459.0
10°	1345.2	1367.7	1380.2	1417.7	1441.5
12.5°	1293.9	1320.1	1340.2	1389.0	1424.0
15°	1240.1	1268.8	1296.4	1357.7	1400.2
17.5°	1182.5	1211.3	1247.6	1317.6	1368.9
20°	1121.2	1152.5	1196.3	1271.3	1332.7
22.5°	1058.6	1091.2	1141.2	1223.8	1293.9
25°	993.6	1027.3	1081.1	1172.5	1251.3
27.5°	929.7	961.0	1023.6	1121.2	1207.5
30°	860.9	893.4	959.8	1067.4	1160.0
32.5°	792.1	824.6	901.0	1013.6	1111.2
35°	720.8	754.5	834.6	957.3	1061.1
37.5°	649.4	684.5	773.3	899.7	1009.8
40°	578.1	615.7	709.5	842.1	956.0
42.5°	505.5	545.6	644.4	785.8	903.5
45°	438.0	474.3	583.1	728.3	848.4
47.5°	389.2	410.4	518.0	669.5	795.8
50°	354.1	364.1	455.5	613.1	744.5
52.5°	322.8	329.1	394.2	560.6	688.2
55°	291.6	297.8	340.4	505.5	630.7
57.5°	261.5	265.3	300.3	450.5	573.1
60°	234.0	236.5	270.3	395.4	509.3
62.5°	209.0	210.2	241.5	339.1	445.5
65°	183.9	185.2	215.2	282.8	380.4
67.5°	161.4	161.4	190.2	231.5	317.8
70°	138.9	138.9	162.7	187.7	251.5
72.5°	118.9	121.4	137.6	151.4	196.5
75°	98.9	105.1	113.9	120.1	142.7
77.5°	80.1	87.6	91.3	93.8	95.1
80°	62.6	67.6	70.1	71.3	68.8
82.5°	46.3	50.1	51.3	51.3	47.6
85°	28.8	32.5	35.0	33.8	28.8
87.5°	13.8	18.8	20.0	17.5	13.8
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	14.67	16.17	15.03	16.48	16.79	18.69	20.19	19.06	20.50	20.82
	3H	16.25	17.60	16.63	17.93	18.29	20.08	21.42	20.46	21.75	22.11
	4H	16.90	18.16	17.30	18.51	18.89	20.49	21.75	20.89	22.09	22.47
	6H	17.41	18.57	17.82	18.94	19.33	20.69	21.86	21.10	22.22	22.61
	8H	17.59	18.70	18.01	19.09	19.49	20.75	21.86	21.18	22.25	22.65
	12H	17.71	18.77	18.14	19.16	19.59	20.78	21.84	21.21	22.22	22.65
4H	2H	15.44	16.70	15.84	17.05	17.42	18.82	20.08	19.22	20.43	20.81
	3H	17.22	18.26	17.63	18.66	19.07	20.39	21.44	20.80	21.84	22.24
	4H	17.99	18.93	18.42	19.34	19.78	20.90	21.84	21.33	22.26	22.70
	6H	18.63	19.45	19.08	19.89	20.35	21.23	22.05	21.69	22.49	22.95
	8H	18.86	19.62	19.32	20.07	20.53	21.33	22.09	21.79	22.54	23.00
	12H	19.03	19.71	19.51	20.19	20.66	21.40	22.08	21.88	22.56	23.03
8H	4H	18.37	19.14	18.83	19.58	20.05	21.00	21.77	21.47	22.21	22.68
	6H	19.15	19.78	19.64	20.27	20.75	21.42	22.05	21.92	22.54	23.02
	8H	19.46	20.03	19.98	20.54	21.03	21.58	22.15	22.09	22.66	23.15
	12H	19.73	20.23	20.24	20.72	21.29	21.72	22.22	22.23	22.71	23.28
12H	4H	18.41	19.09	18.89	19.57	20.04	21.00	21.68	21.48	22.16	22.63
	6H	19.22	19.79	19.74	20.30	20.79	21.43	22.00	21.95	22.51	23.00
	8H	19.61	20.11	20.12	20.60	21.17	21.64	22.14	22.15	22.64	23.20