

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: P1061517

Luminaire Tested: S125RDRP-S1270D830-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D830-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

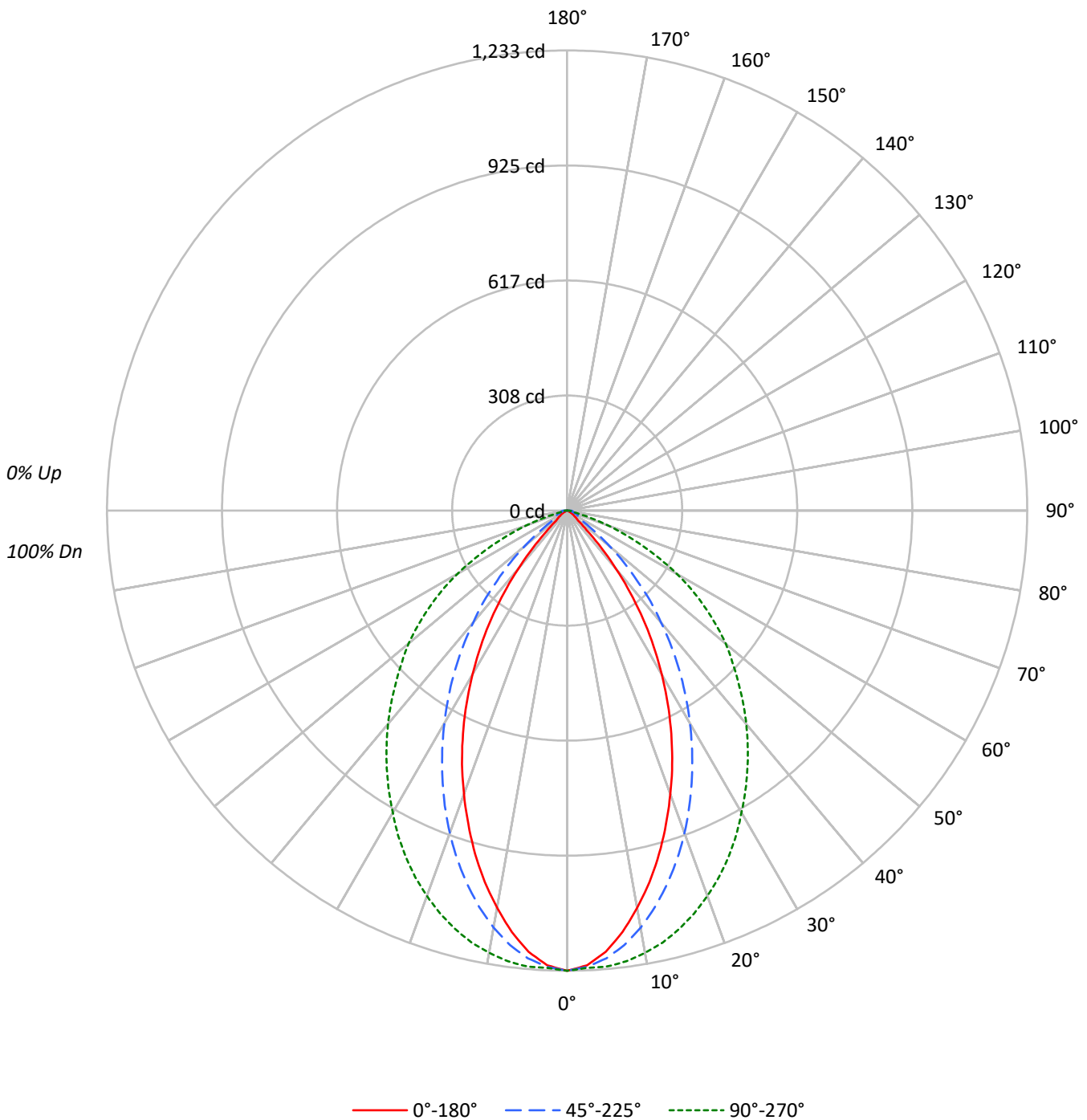
Lumens per Lamp: N/A
Luminaire Lumens: 1595.4 lumens
Efficiency: N/A
Efficacy: 38.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061517

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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	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	98	89	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	67	74	70	67	65					65			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53					53			
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49					49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45					45			
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8490	8490	8490
5°	8201	8324	8476
10°	7558	7932	8411
15°	6787	7383	8272
20°	5923	6737	8051
25°	5017	6006	7776
30°	4030	5229	7429
35°	2983	4411	7082
40°	1847	3522	6711
45°	721	2575	6311
50°	337	1614	5944
55°	247	690	5395
60°	169	490	4679
65°	112	513	3638
70°	111	469	2289
75°	146	474	729
80°	218	543	488
85°	324	1082	758

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6311 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	7.1
10°-20°	293.0	18.4
20°-30°	373.2	23.4
30°-40°	347.4	21.8
40°-50°	239.1	15.0
50°-60°	135.3	8.5
60°-70°	63.9	4.0
70°-80°	20.0	1.3
80°-90°	10.4	0.7
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°	779.3	48.8
0°-40°	1126.6	70.6
0°-60°	1501.0	94.1
0°-90°	1595.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1595.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1186	1203	1204	1215	1226	110
15°	952	984	1036	1114	1160	265
25°	660	703	791	924	1024	301
35°	355	404	525	704	843	219
45°	74	118	264	478	648	70
55°	21	23	58	275	449	19
65°	7	8	32	99	223	8
75°	6	12	18	19	27	6
85°	4	11	14	12	10	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1233.1	1233.1	1233.1	1233.1	1233.1
2.5°	1219.4	1231.7	1223.5	1224.9	1226.3
5°	1186.5	1203.0	1204.3	1215.3	1226.3
7.5°	1138.6	1159.1	1174.2	1200.2	1218.0
10°	1081.0	1105.7	1134.5	1176.9	1203.0
12.5°	1019.4	1048.1	1087.9	1148.2	1185.2
15°	952.2	983.8	1035.8	1113.9	1160.5
17.5°	881.0	916.6	979.6	1072.8	1131.7
20°	808.4	846.7	919.4	1026.2	1098.8
22.5°	735.8	775.5	856.3	975.5	1063.2
25°	660.4	702.9	790.6	923.5	1023.5
27.5°	583.7	627.5	724.8	870.0	981.0
30°	506.9	553.5	657.7	815.2	934.4
32.5°	431.6	478.2	591.9	760.4	889.2
35°	354.9	404.2	524.8	704.2	842.6
37.5°	278.1	331.6	459.0	646.7	794.7
40°	205.5	256.2	391.9	590.5	746.7
42.5°	137.0	186.3	331.6	534.4	697.4
45°	74.0	117.8	264.4	478.2	648.1
47.5°	39.7	63.0	206.9	423.4	600.1
50°	31.5	35.6	150.7	372.7	554.9
52.5°	26.0	28.8	98.6	324.7	502.8
55°	20.6	23.3	57.5	275.4	449.4
57.5°	16.4	19.2	37.0	228.8	397.3
60°	12.3	15.1	35.6	183.6	339.8
62.5°	9.6	11.0	32.9	141.1	279.5
65°	6.9	8.2	31.5	98.6	223.3
67.5°	5.5	6.9	28.8	63.0	167.2
70°	5.5	5.5	23.3	41.1	113.7
72.5°	5.5	9.6	20.6	27.4	68.5
75°	5.5	12.3	17.8	19.2	27.4
77.5°	5.5	13.7	15.1	15.1	15.1
80°	5.5	12.3	13.7	13.7	12.3
82.5°	5.5	11.0	12.3	13.7	11.0
85°	4.1	11.0	13.7	12.3	9.6
87.5°	4.1	11.0	12.3	11.0	6.9
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	0.30	16.68	17.97	17.04	18.28	18.59
	3H	0.00	0.00	0.00	0.33	0.70	17.40	18.54	17.78	18.87	19.23
	4H	0.00	0.82	0.16	1.17	1.55	17.42	18.48	17.82	18.83	19.22
	6H	1.02	2.00	1.44	2.37	2.76	17.37	18.35	17.79	18.72	19.11
	8H	1.66	2.59	2.09	2.98	3.38	17.35	18.27	17.78	18.66	19.07
	12H	2.25	3.14	2.69	3.52	3.95	17.33	18.21	17.76	18.60	19.03
4H	2H	1.19	2.25	1.59	2.60	2.98	16.47	17.53	16.87	17.88	18.26
	3H	2.00	2.87	2.42	3.27	3.68	17.22	18.09	17.64	18.50	18.90
	4H	3.01	3.78	3.44	4.20	4.65	17.25	18.03	17.69	18.45	18.89
	6H	4.29	4.95	4.75	5.40	5.87	17.23	17.90	17.69	18.35	18.81
	8H	4.87	5.49	5.34	5.94	6.41	17.22	17.84	17.69	18.29	18.76
	12H	5.43	5.98	5.92	6.47	6.94	17.22	17.77	17.71	18.26	18.73
8H	4H	4.42	5.05	4.89	5.49	5.97	17.14	17.76	17.61	18.21	18.68
	6H	5.98	6.49	6.49	6.99	7.47	17.13	17.63	17.63	18.13	18.61
	8H	6.78	7.24	7.30	7.75	8.25	17.14	17.59	17.66	18.11	18.60
	12H	7.62	8.03	8.14	8.52	9.09	17.20	17.60	17.71	18.10	18.67
12H	4H	4.65	5.19	5.13	5.68	6.15	17.09	17.64	17.58	18.13	18.60
	6H	6.35	6.81	6.88	7.33	7.82	17.08	17.54	17.60	18.05	18.54
	8H	7.35	7.75	7.86	8.25	8.82	17.13	17.53	17.64	18.03	18.60