

Scaled data based on original data using
LM-79-2019 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: S125RDR-S1270D830-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S125RDR-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

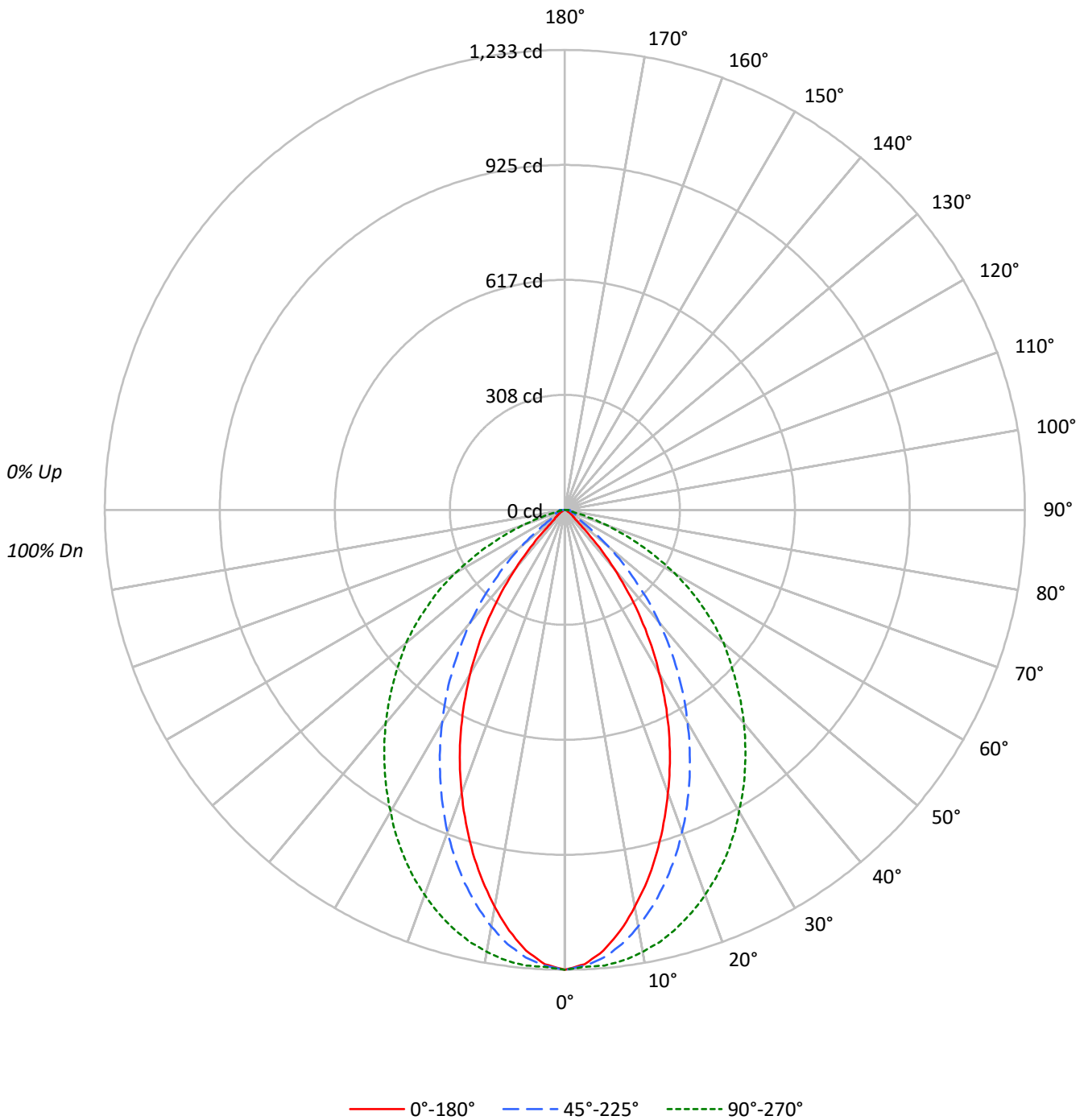
Lumens per Lamp: N/A
Luminaire Lumens: 1595.4 lumens
Efficiency: N/A
Efficacy: 38.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): 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	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

(END OF REPORT)