

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: P1175406

Luminaire Tested: S125RDR-H1270D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175406
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: S125RDR-H1270D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

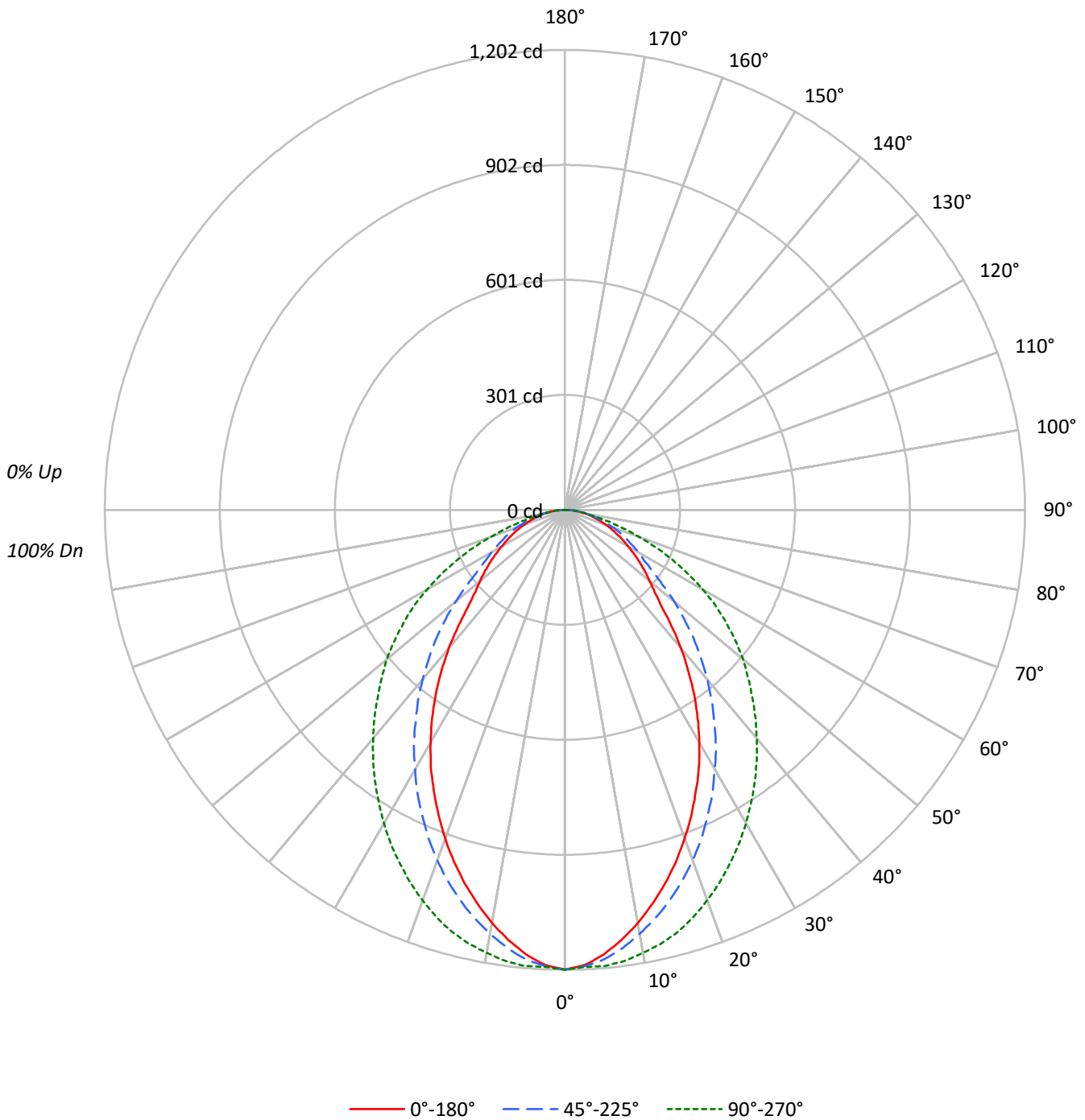
Lumens per Lamp: N/A
Luminaire Lumens: 2264.1 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (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				
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°	8275	8275	8275
5°	8060	8151	8271
10°	7668	7867	8217
15°	7207	7534	8137
20°	6698	7146	7961
25°	6154	6697	7750
30°	5580	6221	7519
35°	4939	5720	7271
40°	4236	5200	7005
45°	3477	4629	6735
50°	3092	3978	6502
55°	2853	3331	6172
60°	2627	3035	5718
65°	2444	2859	5052
70°	2279	2669	4129
75°	2144	2469	3094
80°	2022	2264	2224
85°	1856	2259	1856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6735 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	4.9
10°-20°	299.9	13.2
20°-30°	412.6	18.2
30°-40°	437.6	19.3
40°-50°	383.0	16.9
50°-60°	293.9	13.0
60°-70°	195.8	8.6
70°-80°	100.4	4.4
80°-90°	29.8	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°	823.7	36.4
0°-40°	1261.3	55.7
0°-60°	1938.2	85.6
0°-90°	2264.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2264.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1166	1181	1179	1188	1197	109
15°	1011	1034	1057	1107	1142	283
25°	810	838	882	956	1020	372
35°	588	615	680	780	865	366
45°	357	387	475	594	692	282
55°	238	243	278	412	514	213
65°	150	151	176	231	310	149
75°	81	86	93	98	116	86
85°	24	26	29	28	24	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1201.8	1201.8	1201.8	1201.8	1201.8
2.5°	1190.6	1202.8	1193.6	1194.7	1195.7
5°	1166.1	1181.4	1179.4	1187.5	1196.7
7.5°	1133.4	1149.8	1154.9	1175.3	1189.6
10°	1096.7	1115.1	1125.3	1155.9	1175.3
12.5°	1054.9	1076.3	1092.6	1132.4	1161.0
15°	1011.0	1034.5	1056.9	1106.9	1141.6
17.5°	964.1	987.6	1017.1	1074.3	1116.1
20°	914.1	939.6	975.3	1036.5	1086.5
22.5°	863.1	889.6	930.4	997.8	1054.9
25°	810.0	837.6	881.5	955.9	1020.2
27.5°	758.0	783.5	834.5	914.1	984.5
30°	701.9	728.4	782.5	870.2	945.7
32.5°	645.8	672.3	734.5	826.4	905.9
35°	587.6	615.2	680.5	780.5	865.1
37.5°	529.5	558.1	630.5	733.5	823.3
40°	471.3	501.9	578.5	686.6	779.4
42.5°	412.2	444.8	525.4	640.7	736.6
45°	357.1	386.7	475.4	593.8	691.7
47.5°	317.3	334.6	422.4	545.8	648.8
50°	288.7	296.9	371.4	499.9	607.0
52.5°	263.2	268.3	321.4	457.1	561.1
55°	237.7	242.8	277.5	412.2	514.2
57.5°	213.2	216.3	244.8	367.3	467.3
60°	190.8	192.8	220.4	322.4	415.2
62.5°	170.4	171.4	196.9	276.5	363.2
65°	150.0	151.0	175.5	230.6	310.1
67.5°	131.6	131.6	155.1	188.7	259.1
70°	113.2	113.2	132.6	153.0	205.1
72.5°	96.9	99.0	112.2	123.4	160.2
75°	80.6	85.7	92.8	97.9	116.3
77.5°	65.3	71.4	74.5	76.5	77.5
80°	51.0	55.1	57.1	58.2	56.1
82.5°	37.7	40.8	41.8	41.8	38.8
85°	23.5	26.5	28.6	27.5	23.5
87.5°	11.2	15.3	16.3	14.3	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)