

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: P1061621

Luminaire Tested: S125RDR-S375D840-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D840-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

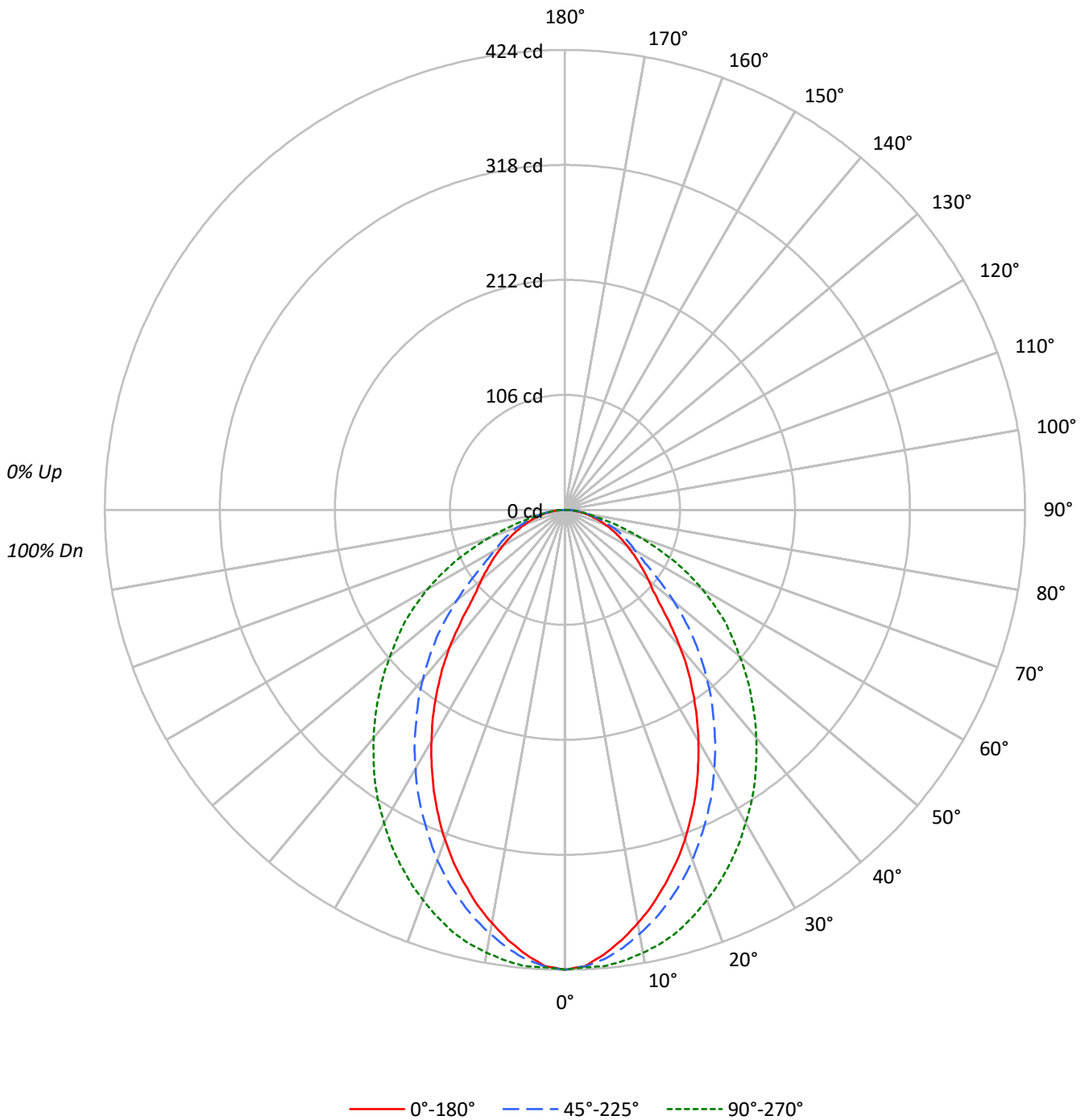
Lumens per Lamp: N/A
Luminaire Lumens: 794.6 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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				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	74	69	77	72	68	74	70	66				64	
4	86	75	67	61	84	74	67	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	48	59	52	47	58	52	47	56	51	46				44	
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42				40	
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38				36	
9	61	48	41	35	59	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°	2919	2919	2919
5°	2845	2874	2918
10°	2706	2774	2898
15°	2545	2656	2868
20°	2370	2519	2805
25°	2171	2358	2734
30°	1956	2188	2649
35°	1730	2011	2566
40°	1484	1831	2466
45°	1212	1629	2362
50°	1075	1397	2254
55°	986	1158	2161
60°	910	1026	2012
65°	849	987	1794
70°	793	938	1466
75°	732	878	1080
80°	690	821	789
85°	632	806	671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2362 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	4.9
10°-20°	105.7	13.3
20°-30°	145.2	18.3
30°-40°	153.9	19.4
40°-50°	134.3	16.9
50°-60°	102.1	12.8
60°-70°	68.4	8.6
70°-80°	35.2	4.4
80°-90°	10.6	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°	290.1	36.5
0°-40°	444.0	55.9
0°-60°	680.4	85.6
0°-90°	794.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	794.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	424	424	424	424	424	
5°	412	416	416	419	422	39
15°	357	364	373	389	402	100
25°	286	295	310	336	360	131
35°	206	218	239	273	305	128
45°	124	137	167	207	243	98
55°	82	85	96	142	180	74
65°	52	53	61	81	110	52
75°	28	29	33	35	41	29
85°	8	10	10	9	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	423.9	423.9	423.9	423.9	423.9
2.5°	420.9	423.9	421.3	421.3	422.2
5°	411.6	415.8	415.8	418.8	422.2
7.5°	400.1	404.8	407.3	414.1	419.2
10°	387.0	392.1	396.8	406.9	414.5
12.5°	373.0	378.6	385.8	398.9	409.5
15°	357.0	363.7	372.6	389.1	402.3
17.5°	340.9	347.6	358.7	378.1	392.9
20°	323.5	330.7	343.8	365.0	382.8
22.5°	304.9	312.9	326.9	351.0	371.8
25°	285.8	294.7	310.4	336.2	359.9
27.5°	265.9	276.5	293.4	321.0	347.2
30°	246.0	256.6	275.2	305.3	333.2
32.5°	226.1	237.5	257.9	289.6	319.7
35°	205.8	217.6	239.2	273.1	305.3
37.5°	185.9	197.7	221.9	257.0	289.6
40°	165.1	177.4	203.7	240.5	274.4
42.5°	144.0	157.1	185.5	223.6	258.7
45°	124.5	136.8	167.3	207.1	242.6
47.5°	110.1	118.1	149.0	190.1	227.0
50°	100.4	104.6	130.4	173.6	210.4
52.5°	90.6	94.0	113.1	156.7	194.8
55°	82.1	84.7	96.5	141.9	180.0
57.5°	73.7	76.2	83.8	127.0	162.6
60°	66.1	68.2	74.5	111.4	146.1
62.5°	58.9	60.6	67.3	96.5	128.3
65°	52.1	53.4	60.6	80.9	110.1
67.5°	45.3	46.6	53.8	66.1	90.6
70°	39.4	39.8	46.6	53.8	72.8
72.5°	33.5	33.9	39.4	43.6	55.9
75°	27.5	29.2	33.0	35.1	40.6
77.5°	22.4	24.6	26.7	27.5	27.5
80°	17.4	19.9	20.7	20.7	19.9
82.5°	12.7	14.8	15.2	14.4	13.5
85°	8.0	10.2	10.2	9.3	8.5
87.5°	3.8	5.5	5.5	5.1	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)