

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: P1027232

Luminaire Tested: S125RDIP-B610D375UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027232
REPORT IS A COMBINATION OF REPORTS P1005613 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B610D375UB2750-4F0-XX-W2A-F_4000K
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

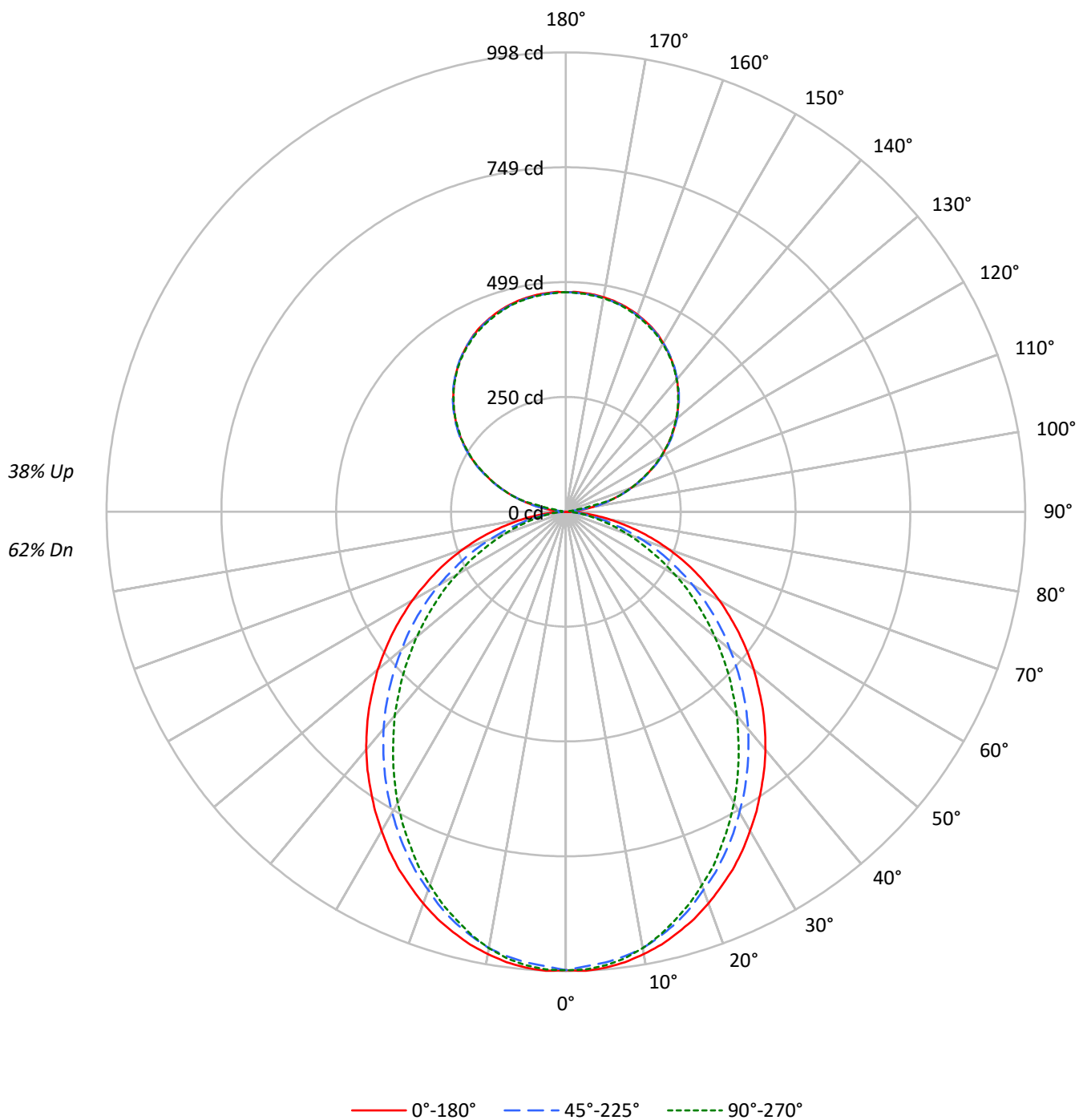
Lumens per Lamp: N/A
Luminaire Lumens: 3819.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
Input Voltage (V):
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67
1	101	96	93	89	94	90	87	84	79	77	74	69	67	65	60	58	57
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	50	48
3	84	75	67	61	78	70	64	58	62	57	53	54	50	47	47	44	41
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36
5	71	59	51	45	66	56	48	43	49	44	39	44	39	35	38	34	31
6	65	53	45	39	61	50	43	37	45	39	34	39	35	31	35	31	28
7	61	48	40	34	57	46	38	33	41	35	30	36	31	28	32	28	25
8	56	44	36	31	53	42	34	29	37	31	27	33	28	25	29	25	22
9	52	40	33	27	49	38	31	26	34	28	24	30	26	22	27	23	20
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6381	6381	6381
5°	6382	6222	6232
10°	6319	6065	6012
15°	6230	5846	5722
20°	6120	5582	5418
25°	5992	5324	5092
30°	5837	5041	4751
35°	5678	4753	4387
40°	5527	4457	4032
45°	5346	4138	3661
50°	5162	3799	3282
55°	4948	3466	2891
60°	4730	3084	2484
65°	4471	2657	2045
70°	4167	2163	1610
75°	3747	1626	1173
80°	3160	1054	791
85°	2367	567	446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5346 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	2.5
10°-20°	261.9	6.9
20°-30°	379.8	9.9
30°-40°	432.7	11.3
40°-50°	421.8	11.0
50°-60°	355.0	9.3
60°-70°	248.7	6.5
70°-80°	127.5	3.3
80°-90°	32.5	0.9
90°-100°	16.2	0.4
100°-110°	107.7	2.8
110°-120°	193.9	5.1
120°-130°	248.8	6.5
130°-140°	267.6	7.0
140°-150°	251.2	6.6
150°-160°	203.2	5.3
160°-170°	131.4	3.4
170°-180°	45.3	1.2
0°-30°	735.5	19.3
0°-40°	1168.2	30.6
0°-60°	1944.9	50.9
0°-90°	2353.7	61.6
90°-120°	317.7	8.3
90°-150°	1085.4	28.4
90°-180°	1465.0	38.4
0°-180°	3819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	994	991	983	991	989	94
15°	946	941	925	924	918	267
25°	858	846	818	809	800	395
35°	739	721	687	665	654	463
45°	605	583	542	512	500	466
55°	459	435	393	359	347	410
65°	311	285	245	215	204	308
75°	166	143	111	95	90	175
85°	41	28	24	23	23	45
90°	0	3	6	7	8	3
95°	20	19	6	7	7	25
105°	104	105	105	105	105	110
115°	195	197	197	196	194	194
125°	278	280	280	279	278	248
135°	346	348	348	347	345	267
145°	401	402	402	402	400	251
155°	442	440	441	442	439	204
165°	466	464	465	467	464	132
175°	477	475	475	478	475	45
180°	477	477	477	477	477	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.9	995.9	995.9	995.9	995.9
2.5°	998.2	995.9	988.4	995.9	995.2
5°	994.4	991.4	983.1	990.7	989.1
7.5°	986.9	983.9	974.1	980.1	978.6
10°	975.6	973.4	962.8	965.1	962.8
12.5°	962.8	959.8	944.8	946.3	942.5
15°	945.5	941.0	925.2	924.5	917.7
17.5°	927.5	920.7	901.9	898.1	892.9
20°	905.7	898.1	874.1	870.3	863.5
22.5°	881.6	874.1	848.5	840.2	834.9
25°	857.5	846.2	818.4	808.6	800.3
27.5°	830.4	816.9	787.6	774.8	766.5
30°	800.3	786.1	754.5	737.2	730.4
32.5°	771.0	753.7	721.4	701.8	692.8
35°	738.7	720.6	686.8	664.9	654.4
37.5°	707.8	686.0	651.4	625.8	615.3
40°	674.7	652.2	616.1	587.5	578.4
42.5°	640.1	616.8	579.2	552.1	537.8
45°	604.8	583.0	541.6	511.5	500.2
47.5°	567.9	545.3	504.0	473.1	460.3
50°	533.3	508.5	465.6	434.0	422.7
52.5°	495.7	470.1	430.3	395.7	384.4
55°	458.8	434.8	392.7	358.8	346.8
57.5°	421.2	395.7	355.0	321.9	311.4
60°	385.1	358.8	318.2	285.1	273.8
62.5°	346.8	321.9	280.6	250.5	239.2
65°	310.7	285.1	245.2	215.1	203.8
67.5°	274.6	249.0	210.6	182.0	173.0
70°	237.7	212.1	174.5	151.2	142.2
72.5°	201.6	176.8	142.2	121.1	115.8
75°	165.5	142.9	111.3	94.8	89.5
77.5°	128.6	110.6	84.2	71.5	66.9
80°	97.8	79.7	58.7	51.9	50.4
82.5°	67.7	51.9	39.1	36.9	36.1
85°	41.4	27.8	24.1	23.3	22.6
87.5°	17.3	12.0	11.3	11.3	10.5
90°	0.4	3.2	5.7	7.4	8.5
92.5°	6.7	3.5	5.7	7.4	7.8
95°	20.2	19.1	5.7	7.4	7.4
97.5°	37.8	40.0	6.4	7.1	7.4
100°	59.1	60.1	61.5	8.8	7.4
102.5°	80.6	82.0	82.7	83.5	53.7
105°	104.0	105.4	105.4	105.4	105.0
107.5°	128.0	128.0	128.7	129.1	127.7
110°	151.3	151.3	152.1	151.0	151.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.3	174.3	174.7	173.3	172.6
115°	195.2	197.0	197.3	195.9	193.8
117.5°	218.2	218.2	219.6	217.5	216.8
120°	239.4	239.0	240.1	239.4	237.6
122.5°	258.1	259.9	260.3	259.5	257.4
125°	277.6	280.1	280.1	278.6	277.6
127.5°	296.3	298.1	297.7	297.0	294.2
130°	313.3	315.1	315.4	314.4	312.6
132.5°	330.3	332.4	331.3	331.3	329.6
135°	346.2	348.3	347.6	346.9	344.8
137.5°	361.0	363.2	362.4	362.4	360.7
140°	375.5	376.2	375.9	376.6	374.5
142.5°	388.6	389.0	389.7	389.7	387.6
145°	401.3	402.1	402.1	402.4	400.3
147.5°	412.7	412.7	413.0	413.4	410.9
150°	423.3	422.6	423.3	424.0	421.1
152.5°	433.5	431.8	432.5	433.2	430.7
155°	442.0	439.9	440.6	441.7	438.8
157.5°	448.7	447.7	447.7	448.7	445.9
160°	455.8	453.7	454.0	455.4	452.6
162.5°	461.5	459.3	459.7	461.8	458.6
165°	466.4	464.3	464.6	466.8	463.9
167.5°	470.3	468.2	468.5	471.0	467.8
170°	473.5	471.0	471.4	474.2	471.0
172.5°	475.6	473.1	473.8	476.3	473.1
175°	477.0	474.9	475.2	478.1	474.9
177.5°	478.1	476.0	476.3	478.8	476.0
180°	477.0	477.0	477.0	477.0	477.0

(END OF REPORT)