

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: P1027230

Luminaire Tested: S125RDIP-B610D375UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027230
REPORT IS A COMBINATION OF REPORTS P1005611 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_3000K
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

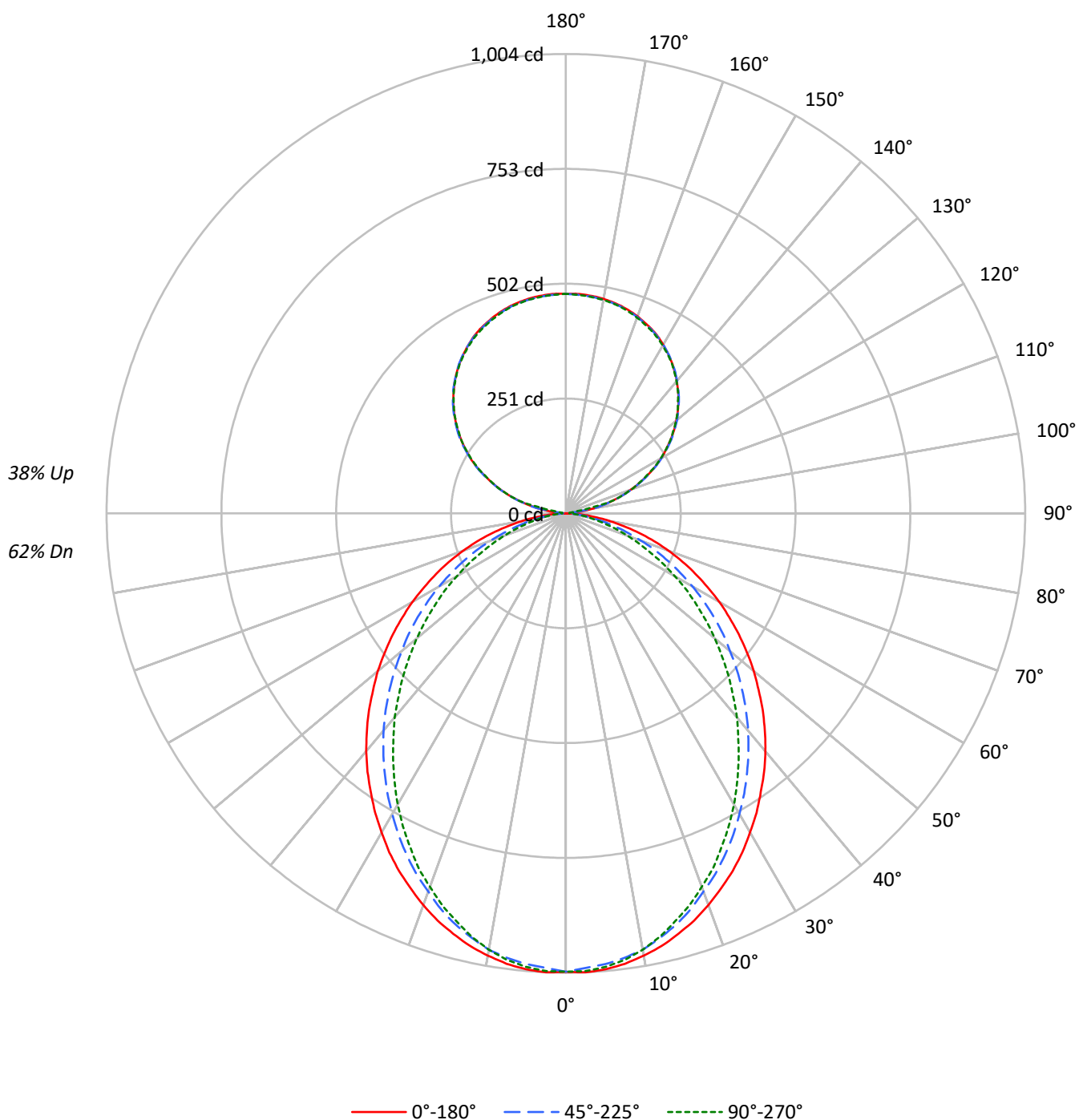
Lumens per Lamp: N/A
Luminaire Lumens: 3841.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	6419	6419	6419
5°	6419	6259	6269
10°	6357	6101	6047
15°	6267	5880	5756
20°	6155	5615	5451
25°	6028	5356	5123
30°	5872	5070	4779
35°	5712	4780	4413
40°	5560	4483	4057
45°	5378	4162	3683
50°	5193	3822	3302
55°	4979	3486	2908
60°	4758	3102	2499
65°	4497	2673	2058
70°	4191	2176	1619
75°	3770	1636	1180
80°	3180	1059	796
85°	2378	569	448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5378 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	2.5
10°-20°	263.5	6.9
20°-30°	382.1	9.9
30°-40°	435.3	11.3
40°-50°	424.3	11.0
50°-60°	357.1	9.3
60°-70°	250.2	6.5
70°-80°	128.3	3.3
80°-90°	32.7	0.9
90°-100°	16.3	0.4
100°-110°	108.2	2.8
110°-120°	194.9	5.1
120°-130°	250.2	6.5
130°-140°	269.1	7.0
140°-150°	252.6	6.6
150°-160°	204.3	5.3
160°-170°	132.1	3.4
170°-180°	45.6	1.2
0°-30°	739.9	19.3
0°-40°	1175.2	30.6
0°-60°	1956.5	50.9
0°-90°	2367.7	61.6
90°-120°	319.5	8.3
90°-150°	1091.3	28.4
90°-180°	1473.0	38.3
0°-180°	3841.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1000	997	989	996	995	95
15°	951	947	931	930	923	268
25°	863	851	823	813	805	397
35°	743	725	691	669	658	465
45°	608	586	545	514	503	469
55°	462	437	395	361	349	413
65°	312	287	247	216	205	309
75°	166	144	112	95	90	176
85°	42	28	24	24	23	46
90°	0	3	6	8	8	3
95°	20	19	6	8	8	25
105°	104	106	106	106	106	111
115°	196	198	198	197	195	195
125°	279	282	282	280	279	249
135°	348	350	350	349	347	268
145°	404	404	404	405	402	252
155°	444	442	443	444	441	205
165°	469	467	467	469	466	132
175°	480	478	478	481	478	46
180°	480	480	480	480	480	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	1004.1	1001.8	994.3	1001.8	1001.1
5°	1000.3	997.3	989.0	996.5	995.0
7.5°	992.8	989.7	979.9	986.0	984.4
10°	981.4	979.1	968.5	970.8	968.5
12.5°	968.5	965.5	950.4	951.9	948.1
15°	951.1	946.6	930.7	930.0	923.1
17.5°	933.0	926.2	907.3	903.5	898.2
20°	911.0	903.5	879.3	875.5	868.7
22.5°	886.8	879.3	853.5	845.2	839.9
25°	862.6	851.3	823.3	813.4	805.1
27.5°	835.4	821.8	792.2	779.4	771.1
30°	805.1	790.7	758.9	741.5	734.7
32.5°	775.6	758.2	725.7	706.0	696.9
35°	743.1	724.9	690.8	668.9	658.3
37.5°	712.0	690.1	655.3	629.6	619.0
40°	678.7	656.0	619.7	591.0	581.9
42.5°	643.9	620.5	582.6	555.4	541.0
45°	608.4	586.4	544.8	514.5	503.2
47.5°	571.3	548.6	507.0	476.0	463.1
50°	536.5	511.5	468.4	436.6	425.3
52.5°	498.7	472.9	432.8	398.0	386.7
55°	461.6	437.4	395.0	360.9	348.8
57.5°	423.7	398.0	357.2	323.9	313.3
60°	387.4	360.9	320.1	286.8	275.4
62.5°	348.8	323.9	282.2	252.0	240.6
65°	312.5	286.8	246.7	216.4	205.1
67.5°	276.2	250.5	211.9	183.1	174.0
70°	239.1	213.4	175.5	152.1	143.0
72.5°	202.8	177.8	143.0	121.8	116.5
75°	166.5	143.8	112.0	95.3	90.0
77.5°	129.4	111.2	84.7	71.9	67.3
80°	98.4	80.2	59.0	52.2	50.7
82.5°	68.1	52.2	39.3	37.1	36.3
85°	41.6	28.0	24.2	23.5	22.7
87.5°	17.4	12.1	11.4	11.4	10.6
90°	0.4	3.2	5.7	7.5	8.5
92.5°	6.8	3.6	5.7	7.5	7.8
95°	20.3	19.2	5.7	7.5	7.5
97.5°	38.0	40.2	6.4	7.1	7.5
100°	59.4	60.4	61.9	8.9	7.5
102.5°	81.1	82.5	83.2	83.9	54.0
105°	104.5	105.9	105.9	105.9	105.6
107.5°	128.7	128.7	129.4	129.8	128.3
110°	152.2	152.2	152.9	151.8	152.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.2	175.3	175.6	174.2	173.5
115°	196.3	198.0	198.4	197.0	194.8
117.5°	219.4	219.4	220.8	218.7	217.9
120°	240.7	240.3	241.4	240.7	238.9
122.5°	259.5	261.3	261.7	261.0	258.8
125°	279.1	281.6	281.6	280.2	279.1
127.5°	297.9	299.7	299.4	298.7	295.8
130°	315.0	316.8	317.1	316.1	314.3
132.5°	332.1	334.2	333.1	333.1	331.4
135°	348.1	350.2	349.5	348.8	346.6
137.5°	363.0	365.1	364.4	364.4	362.6
140°	377.6	378.3	377.9	378.6	376.5
142.5°	390.7	391.1	391.8	391.8	389.7
145°	403.5	404.2	404.2	404.6	402.5
147.5°	414.9	414.9	415.3	415.6	413.1
150°	425.6	424.9	425.6	426.3	423.4
152.5°	435.9	434.1	434.8	435.5	433.0
155°	444.4	442.3	443.0	444.1	441.2
157.5°	451.2	450.1	450.1	451.2	448.3
160°	458.3	456.2	456.5	457.9	455.1
162.5°	464.0	461.8	462.2	464.3	461.1
165°	469.0	466.8	467.2	469.3	466.5
167.5°	472.9	470.7	471.1	473.6	470.4
170°	476.1	473.6	473.9	476.8	473.6
172.5°	478.2	475.7	476.4	478.9	475.7
175°	479.6	477.5	477.8	480.7	477.5
177.5°	480.7	478.6	478.9	481.4	478.6
180°	479.6	479.6	479.6	479.6	479.6

(END OF REPORT)