

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: P1027240

Luminaire Tested: S125RDIP-B610D610UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027240
REPORT IS A COMBINATION OF REPORTS P1005651 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B610D610UB2750-4F0-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

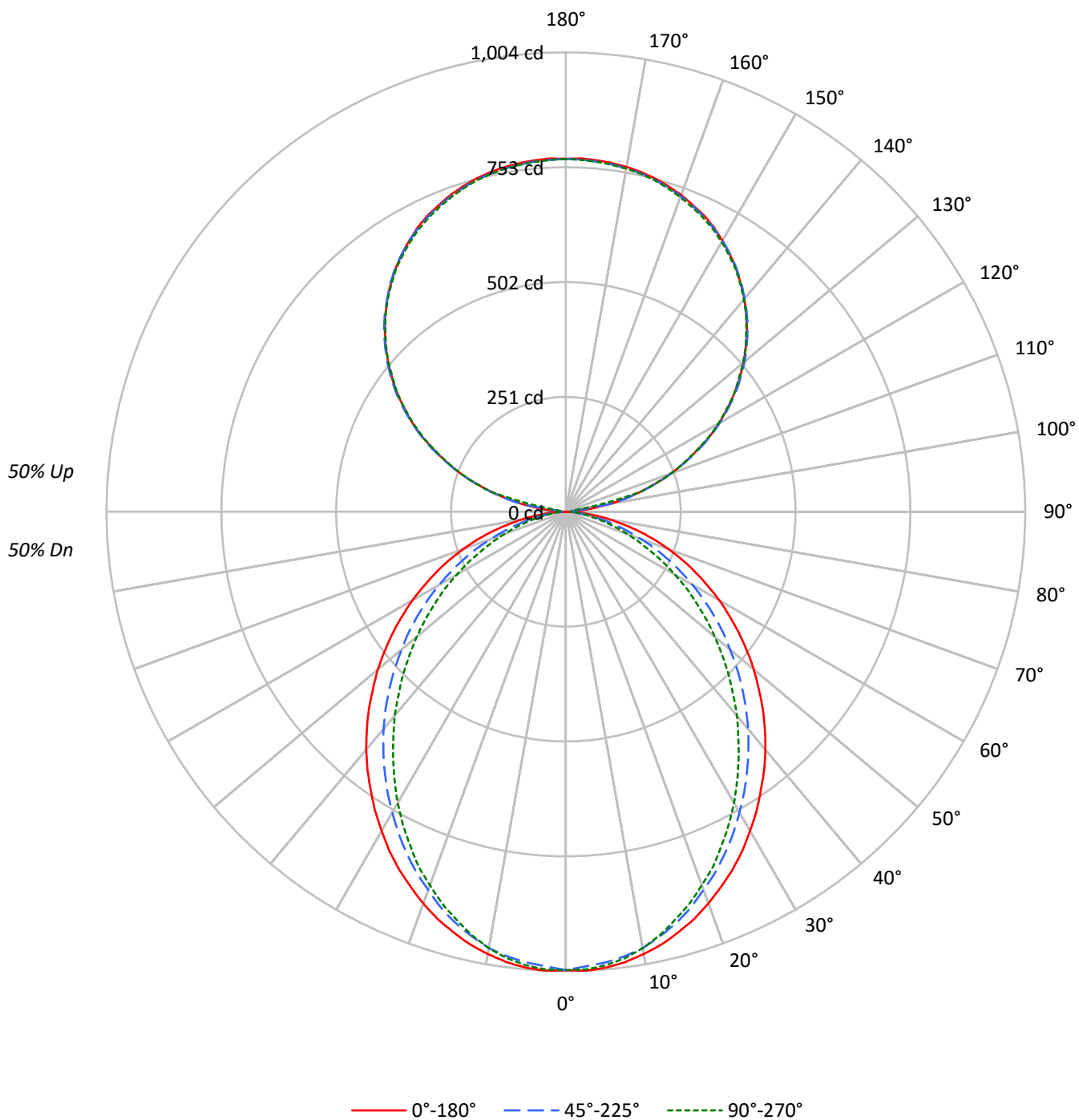
Lumens per Lamp: N/A
Luminaire Lumens: 4737.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	56
1	98	94	90	87	90	87	83	80	73	71	69	61	60	58	50	49	48	48	48	43
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41	41	41	36
3	82	72	65	59	75	67	61	56	57	52	48	48	44	42	39	37	35	35	35	31
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	30	30	27
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	26	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	23	23	20
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	21	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	19	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	23	19	23	19	17	17	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	15	15	13

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	2.0
10°-20°	263.5	5.6
20°-30°	382.1	8.1
30°-40°	435.3	9.2
40°-50°	424.3	9.0
50°-60°	357.1	7.5
60°-70°	250.2	5.3
70°-80°	128.3	2.7
80°-90°	33.1	0.7
90°-100°	26.2	0.6
100°-110°	174.1	3.7
110°-120°	313.4	6.6
120°-130°	402.3	8.5
130°-140°	432.7	9.1
140°-150°	406.1	8.6
150°-160°	328.5	6.9
160°-170°	212.4	4.5
170°-180°	73.3	1.5
0°-30°	739.9	15.6
0°-40°	1175.2	24.8
0°-60°	1956.5	41.3
0°-90°	2368.1	50.0
90°-120°	513.6	10.8
90°-150°	1754.7	37.0
90°-180°	2369.0	50.0
0°-180°	4737.0	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°	1	5	9	12	14	4
95°	33	31	9	12	12	40
105°	168	170	170	170	170	178
115°	316	318	319	317	313	313
125°	449	453	453	450	449	401
135°	560	563	562	561	557	431
145°	649	650	650	650	647	406
155°	715	711	712	714	709	329
165°	754	751	751	755	750	213
175°	771	768	768	773	768	73
180°	771	771	771	771	771	

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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°	0.6	5.1	9.1	12.0	13.7
92.5°	10.9	5.7	9.1	12.0	12.6
95°	32.6	30.9	9.1	12.0	12.0
97.5°	61.2	64.6	10.3	11.4	12.0
100°	95.5	97.2	99.5	14.3	12.0
102.5°	130.3	132.6	133.8	134.9	86.9
105°	168.1	170.4	170.4	170.4	169.8
107.5°	206.9	206.9	208.1	208.7	206.4
110°	244.7	244.7	245.8	244.1	244.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	280.1	281.8	282.4	280.1	279.0
115°	315.6	318.4	319.0	316.7	313.3
117.5°	352.7	352.7	355.0	351.6	350.4
120°	387.0	386.4	388.2	387.0	384.2
122.5°	417.3	420.2	420.7	419.6	416.2
125°	448.8	452.8	452.8	450.5	448.8
127.5°	479.0	481.9	481.3	480.2	475.6
130°	506.5	509.3	509.9	508.2	505.3
132.5°	533.9	537.4	535.6	535.6	532.8
135°	559.7	563.1	561.9	560.8	557.4
137.5°	583.7	587.1	585.9	585.9	583.1
140°	607.1	608.2	607.7	608.8	605.4
142.5°	628.3	628.8	630.0	630.0	626.5
145°	648.8	650.0	650.0	650.5	647.1
147.5°	667.1	667.1	667.7	668.3	664.3
150°	684.3	683.1	684.3	685.4	680.8
152.5°	700.9	698.0	699.1	700.3	696.3
155°	714.6	711.1	712.3	714.0	709.4
157.5°	725.4	723.7	723.7	725.4	720.9
160°	736.9	733.4	734.0	736.3	731.7
162.5°	746.0	742.6	743.2	746.6	741.4
165°	754.0	750.6	751.2	754.6	750.0
167.5°	760.3	756.9	757.4	761.4	756.3
170°	765.4	761.4	762.0	766.6	761.4
172.5°	768.9	764.9	766.0	770.0	764.9
175°	771.2	767.7	768.3	772.9	767.7
177.5°	772.9	769.5	770.0	774.0	769.5
180°	771.2	771.2	771.2	771.2	771.2

(END OF REPORT)