

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: P1027030

Luminaire Tested: S125DIP-B850D610UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027030
REPORT IS A COMBINATION OF REPORTS P1002614 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D610UB2750-4F0-XX-W2A-D_3000K
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

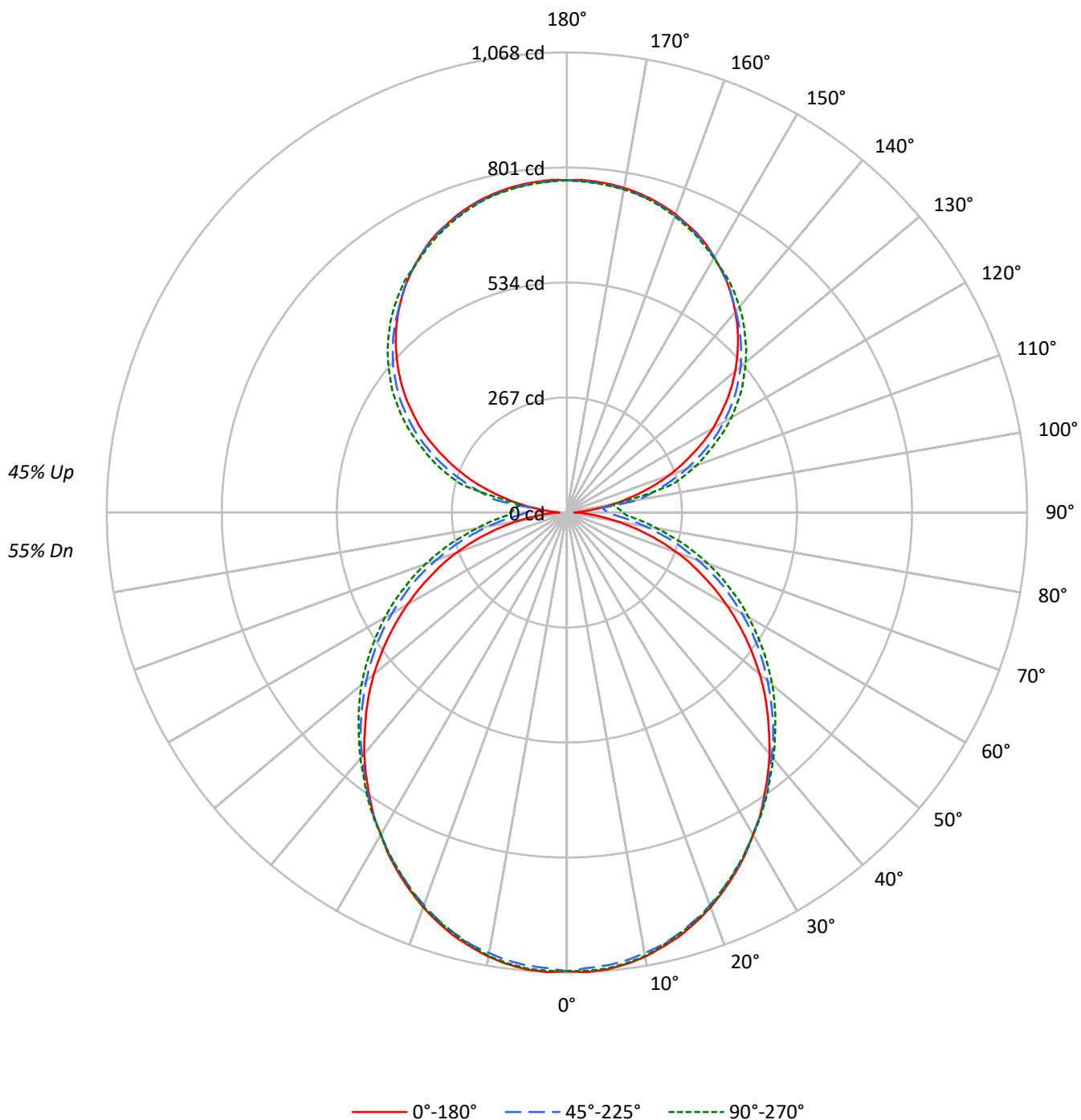
Lumens per Lamp: N/A
Luminaire Lumens: 5669.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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

TEST NUMBER: P1027030

CATALOG NUMBER: S125DIP-B850D610UB2750-4F0-XX-W2A-D_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1027030

CATALOG NUMBER: S125DIP-B850D610UB2750-4F0-XX-W2A-D_3000K

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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	98	93	89	85	91	87	83	80	74	71	69	63	61	59	52	51	49
2	89	81	75	69	82	75	70	65	65	60	56	55	51	49	45	43	41
3	81	71	63	57	75	66	59	54	57	51	47	48	44	41	40	37	35
4	74	63	54	48	68	58	51	45	50	44	40	43	38	35	36	32	30
5	68	56	47	41	63	52	44	39	45	39	34	38	34	30	32	28	26
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22
7	58	45	37	31	53	42	35	29	37	31	26	31	27	23	26	23	20
8	54	41	33	27	50	38	31	26	33	27	23	29	24	21	24	21	18
9	50	37	30	24	46	35	28	23	31	25	21	26	22	18	22	19	16
10	47	34	27	22	43	32	25	21	28	23	19	24	20	17	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6823	6823	6823
5°	6834	6680	6697
10°	6783	6544	6525
15°	6700	6385	6315
20°	6589	6194	6106
25°	6457	5991	5853
30°	6297	5768	5623
35°	6147	5563	5411
40°	5996	5348	5197
45°	5824	5161	5005
50°	5659	4957	4832
55°	5462	4764	4630
60°	5245	4543	4424
65°	5017	4311	4191
70°	4759	3999	3949
75°	4350	3692	3654
80°	3813	3318	3327
85°	3282	3019	3155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5824 cd/sqm

TEST NUMBER: P1027030

CATALOG NUMBER: S125DIP-B850D610UB2750-4F0-XX-W2A-D_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	1.8
10°-20°	286.1	5.0
20°-30°	425.4	7.5
30°-40°	503.8	8.9
40°-50°	520.9	9.2
50°-60°	479.8	8.5
60°-70°	387.9	6.8
70°-80°	259.5	4.6
80°-90°	135.3	2.4
90°-100°	101.7	1.8
100°-110°	229.7	4.1
110°-120°	350.7	6.2
120°-130°	423.4	7.5
130°-140°	441.9	7.8
140°-150°	407.9	7.2
150°-160°	328.5	5.8
160°-170°	212.4	3.7
170°-180°	73.3	1.3
0°-30°	812.3	14.3
0°-40°	1316.1	23.2
0°-60°	2316.7	40.9
0°-90°	3099.4	54.7
90°-120°	682.2	12.0
90°-150°	1955.4	34.5
90°-180°	2570.0	45.3
0°-180°	5669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1065	1063	1056	1064	1063	101
15°	1017	1018	1011	1017	1013	287
25°	924	927	921	925	920	425
35°	800	807	804	807	807	501
45°	659	670	676	683	684	508
55°	506	523	540	551	555	453
65°	349	373	398	413	418	346
75°	192	219	253	274	279	204
85°	57	92	128	151	160	60
90°	17	55	95	122	131	13
95°	46	72	85	111	118	51
105°	178	196	228	249	255	188
115°	322	332	360	376	379	319
125°	453	456	477	491	495	404
135°	562	564	570	583	584	433
145°	650	650	650	656	656	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	

TEST NUMBER: P1027030

CATALOG NUMBER: S125DIP-B850D610UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.9	1064.9	1064.9	1064.9	1064.9
2.5°	1068.1	1066.0	1058.7	1066.0	1064.9
5°	1064.9	1062.9	1055.5	1063.9	1062.9
7.5°	1057.6	1056.6	1049.3	1056.6	1055.5
10°	1047.2	1047.2	1038.8	1046.1	1045.1
12.5°	1032.6	1033.6	1027.4	1032.6	1029.4
15°	1016.9	1018.0	1010.6	1016.9	1012.7
17.5°	997.1	999.2	991.9	997.1	993.9
20°	975.2	977.2	969.9	973.1	973.1
22.5°	950.1	954.3	945.9	950.1	947.0
25°	924.0	927.1	920.9	925.0	919.8
27.5°	895.8	900.0	892.7	895.8	893.7
30°	863.4	869.7	863.4	865.5	864.5
32.5°	834.2	839.4	835.2	837.3	836.3
35°	799.7	807.1	803.9	807.1	807.1
37.5°	766.3	772.6	771.6	775.7	774.7
40°	731.9	740.2	739.2	743.4	745.5
42.5°	694.3	705.8	708.9	714.1	714.1
45°	658.8	670.3	675.5	682.8	683.9
47.5°	622.3	632.7	641.1	651.5	653.6
50°	584.7	596.2	607.6	619.1	622.3
52.5°	545.0	559.6	574.2	586.8	588.8
55°	506.4	523.1	539.8	551.3	555.4
57.5°	466.7	486.5	505.3	517.9	521.0
60°	427.0	447.9	468.8	484.4	487.6
62.5°	388.4	409.3	432.2	450.0	454.2
65°	348.7	372.7	397.8	413.4	417.6
67.5°	312.2	335.1	360.2	379.0	384.2
70°	271.5	295.5	322.6	342.5	348.7
72.5°	231.8	256.8	287.1	309.0	313.2
75°	192.1	219.3	252.7	273.5	278.8
77.5°	153.5	184.8	216.1	239.1	243.3
80°	118.0	149.3	184.8	207.8	211.9
82.5°	85.6	119.0	155.6	177.5	185.8
85°	57.4	91.9	128.4	151.4	159.7
87.5°	36.5	70.0	105.5	129.5	136.8
90°	17.3	55.2	94.7	121.6	130.6
92.5°	25.5	50.6	90.5	116.4	124.3
95°	46.2	71.6	85.3	111.2	118.5
97.5°	73.7	102.2	82.3	105.4	113.3
100°	107.0	130.6	166.3	103.0	107.0
102.5°	140.7	162.9	196.4	218.4	176.7
105°	177.5	196.5	227.8	248.7	255.4
107.5°	215.3	229.9	261.3	282.8	286.8
110°	252.0	264.5	294.9	313.0	320.9

TEST NUMBER: P1027030

CATALOG NUMBER: S125DIP-B850D610UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.4	298.5	327.3	343.8	350.0
115°	321.9	332.0	359.7	376.2	379.1
117.5°	357.9	363.1	391.5	405.9	412.0
120°	392.2	394.8	420.6	437.1	440.6
122.5°	421.5	425.4	448.9	464.5	467.4
125°	453.0	455.9	476.8	491.2	494.7
127.5°	482.1	484.0	501.1	515.7	517.4
130°	509.6	511.4	526.6	539.5	541.8
132.5°	536.0	539.5	548.1	562.7	564.1
135°	561.8	564.1	570.3	582.7	584.5
137.5°	585.8	588.1	591.1	603.6	605.0
140°	608.1	609.2	609.8	622.4	623.1
142.5°	629.3	628.8	630.0	639.4	640.1
145°	649.8	650.0	650.0	655.7	656.5
147.5°	667.1	667.1	667.7	670.4	668.5
150°	684.3	683.1	684.3	685.4	681.8
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)