

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: P1028162

Luminaire Tested: S125DIP-B610D850UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028162
REPORT IS A COMBINATION OF REPORTS P1002386 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D850UB30-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

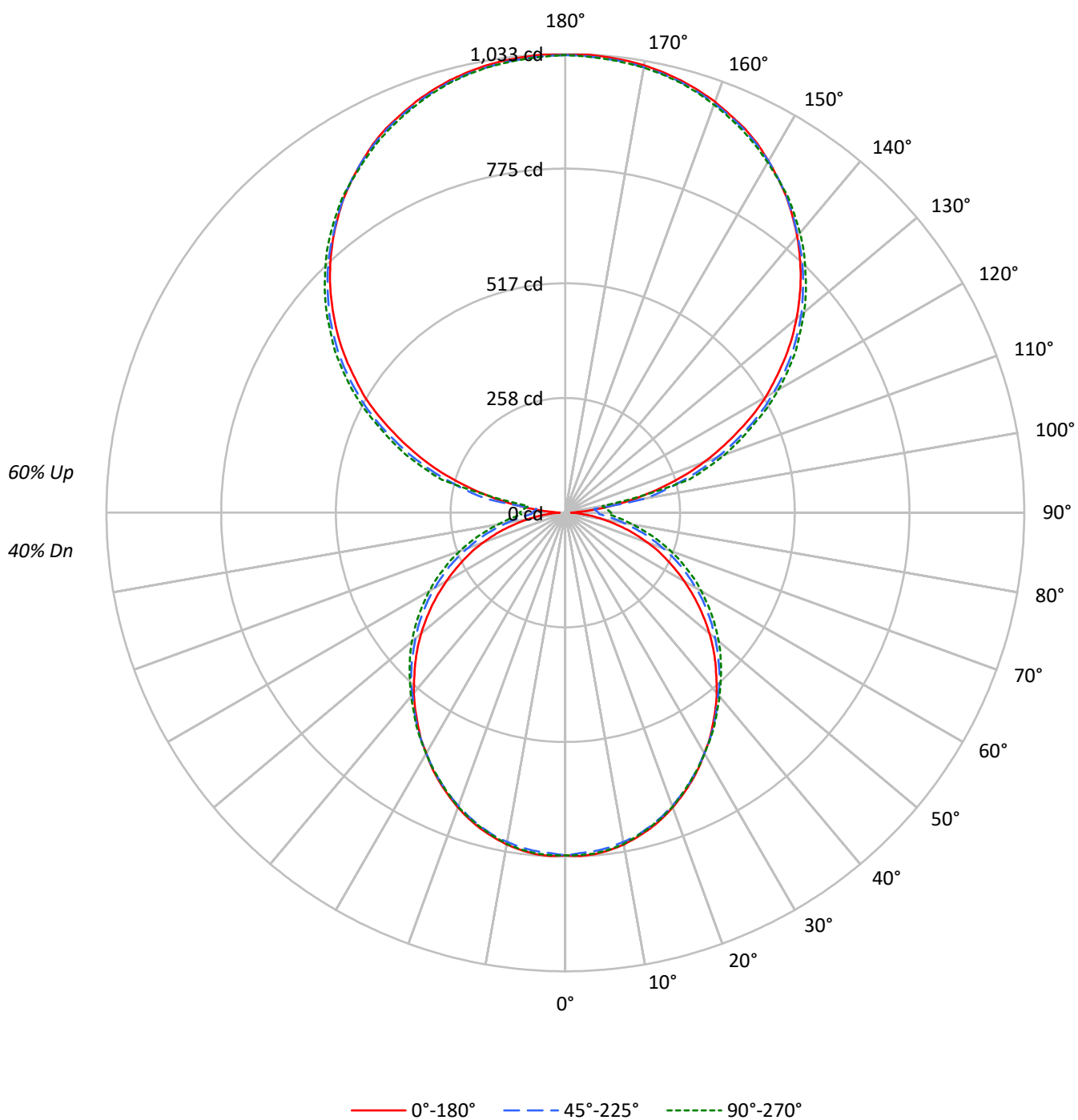
Lumens per Lamp: N/A
Luminaire Lumens: 5558.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47
1	95	91	86	83	86	82	79	76	67	65	63	54	52	50	41	40	39
2	86	79	72	67	78	72	66	62	59	55	51	47	44	42	36	34	32
3	79	69	61	56	71	63	56	51	52	47	43	41	38	35	31	29	27
4	72	61	53	47	65	56	49	43	46	40	36	36	33	30	28	25	23
5	66	54	46	40	59	49	42	37	41	35	31	33	29	26	25	22	20
6	60	48	40	34	55	44	37	32	37	31	27	29	25	22	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	32	26	47	36	29	25	30	25	21	24	20	17	19	16	14
9	48	36	28	23	44	33	26	22	28	22	19	22	18	16	17	15	13
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4945	4945	4945
5°	4953	4841	4853
10°	4916	4743	4730
15°	4856	4628	4577
20°	4776	4489	4425
25°	4680	4342	4242
30°	4564	4181	4075
35°	4455	4032	3921
40°	4345	3876	3767
45°	4221	3740	3627
50°	4102	3593	3502
55°	3958	3453	3356
60°	3801	3293	3206
65°	3636	3124	3038
70°	3448	2898	2862
75°	3152	2675	2648
80°	2763	2404	2411
85°	2378	2189	2288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.3
10°-20°	207.3	3.7
20°-30°	308.3	5.5
30°-40°	365.1	6.6
40°-50°	377.5	6.8
50°-60°	347.7	6.3
60°-70°	281.1	5.1
70°-80°	188.1	3.4
80°-90°	98.7	1.8
90°-100°	89.7	1.6
100°-110°	272.9	4.9
110°-120°	445.8	8.0
120°-130°	552.9	9.9
130°-140°	584.9	10.5
140°-150°	544.0	9.8
150°-160°	438.9	7.9
160°-170°	283.9	5.1
170°-180°	97.9	1.8
0°-30°	588.7	10.6
0°-40°	953.8	17.2
0°-60°	1679.1	30.2
0°-90°	2247.0	40.4
90°-120°	808.5	14.5
90°-150°	2490.2	44.8
90°-180°	3311.0	59.6
0°-180°	5558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	770	765	771	770	73
15°	737	738	732	737	734	208
25°	670	672	667	670	667	308
35°	580	585	583	585	585	363
45°	478	486	490	495	496	368
55°	367	379	391	400	403	328
65°	253	270	288	300	303	251
75°	139	159	183	198	202	148
85°	42	67	93	110	116	43
90°	13	43	74	96	103	11
95°	53	71	67	88	93	61
105°	231	246	269	284	289	245
115°	426	435	456	466	466	423
125°	603	607	622	632	633	538
135°	749	753	757	765	764	578
145°	868	869	869	873	872	543
155°	955	950	952	954	948	440
165°	1008	1003	1004	1008	1002	285
175°	1030	1026	1027	1033	1026	98
180°	1030	1030	1030	1030	1030	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.8	771.8	771.8	771.8	771.8
2.5°	774.1	772.6	767.3	772.6	771.8
5°	771.8	770.3	765.0	771.1	770.3
7.5°	766.5	765.8	760.5	765.8	765.0
10°	759.0	759.0	752.9	758.2	757.5
12.5°	748.4	749.1	744.6	748.4	746.1
15°	737.0	737.8	732.5	737.0	734.0
17.5°	722.6	724.2	718.9	722.6	720.4
20°	706.8	708.3	703.0	705.2	705.2
22.5°	688.6	691.6	685.6	688.6	686.3
25°	669.7	671.9	667.4	670.4	666.7
27.5°	649.2	652.3	647.0	649.2	647.7
30°	625.8	630.3	625.8	627.3	626.5
32.5°	604.6	608.4	605.4	606.9	606.1
35°	579.6	584.9	582.7	584.9	584.9
37.5°	555.4	560.0	559.2	562.2	561.5
40°	530.4	536.5	535.7	538.8	540.3
42.5°	503.2	511.5	513.8	517.6	517.6
45°	477.5	485.8	489.6	494.9	495.6
47.5°	451.0	458.6	464.6	472.2	473.7
50°	423.8	432.1	440.4	448.7	451.0
52.5°	395.0	405.6	416.2	425.3	426.8
55°	367.0	379.1	391.2	399.5	402.6
57.5°	338.2	352.6	366.2	375.3	377.6
60°	309.5	324.6	339.8	351.1	353.4
62.5°	281.5	296.6	313.3	326.1	329.2
65°	252.7	270.1	288.3	299.7	302.7
67.5°	226.3	242.9	261.1	274.7	278.5
70°	196.7	214.1	233.8	248.2	252.7
72.5°	168.0	186.1	208.1	224.0	227.0
75°	139.2	158.9	183.1	198.3	202.0
77.5°	111.2	133.9	156.6	173.3	176.3
80°	85.5	108.2	133.9	150.6	153.6
82.5°	62.0	86.3	112.7	128.6	134.7
85°	41.6	66.6	93.1	109.7	115.8
87.5°	26.5	50.7	76.4	93.8	99.1
90°	12.9	43.2	74.2	95.5	103.1
92.5°	25.1	40.1	71.2	91.7	97.8
95°	53.3	70.8	67.4	87.9	93.2
97.5°	90.8	113.5	66.0	83.4	89.4
100°	135.9	154.1	181.3	83.4	84.9
102.5°	181.8	199.1	224.2	240.8	181.2
105°	231.4	246.5	269.2	284.4	288.9
107.5°	282.6	293.1	316.7	332.5	334.1
110°	332.2	341.3	364.1	376.1	382.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	379.6	388.7	409.9	420.5	424.3
115°	426.2	435.3	455.8	466.3	466.3
117.5°	475.1	478.9	500.9	509.1	512.9
120°	521.0	522.5	542.2	553.5	554.2
122.5°	560.6	565.3	582.6	593.2	593.2
125°	602.7	607.3	622.4	631.5	633.0
127.5°	642.4	645.5	657.6	667.4	665.9
130°	679.1	682.1	693.5	701.8	701.8
132.5°	715.0	719.6	724.9	735.5	734.7
135°	749.4	753.2	757.0	765.3	764.5
137.5°	781.4	785.3	786.8	795.9	795.1
140°	812.1	813.6	813.5	823.4	821.9
142.5°	840.3	840.3	841.8	848.6	847.0
145°	867.8	868.6	868.6	873.1	871.5
147.5°	891.5	891.5	892.2	894.5	890.6
150°	914.4	912.9	914.4	915.9	910.6
152.5°	936.5	932.7	934.2	935.8	930.4
155°	954.9	950.3	951.8	954.1	948.0
157.5°	969.4	967.1	967.1	969.4	963.3
160°	984.7	980.1	980.8	983.9	977.8
162.5°	996.9	992.3	993.1	997.7	990.8
165°	1007.6	1003.0	1003.8	1008.3	1002.2
167.5°	1016.0	1011.4	1012.2	1017.5	1010.6
170°	1022.9	1017.5	1018.3	1024.4	1017.5
172.5°	1027.4	1022.1	1023.6	1029.0	1022.1
175°	1030.5	1025.9	1026.7	1032.8	1025.9
177.5°	1032.8	1028.2	1029.0	1034.3	1028.2
180°	1030.5	1030.5	1030.5	1030.5	1030.5

(END OF REPORT)