

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: P1028359

Luminaire Tested: S125DIP-B850D610UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028359
REPORT IS A COMBINATION OF REPORTS P1002646 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D610UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

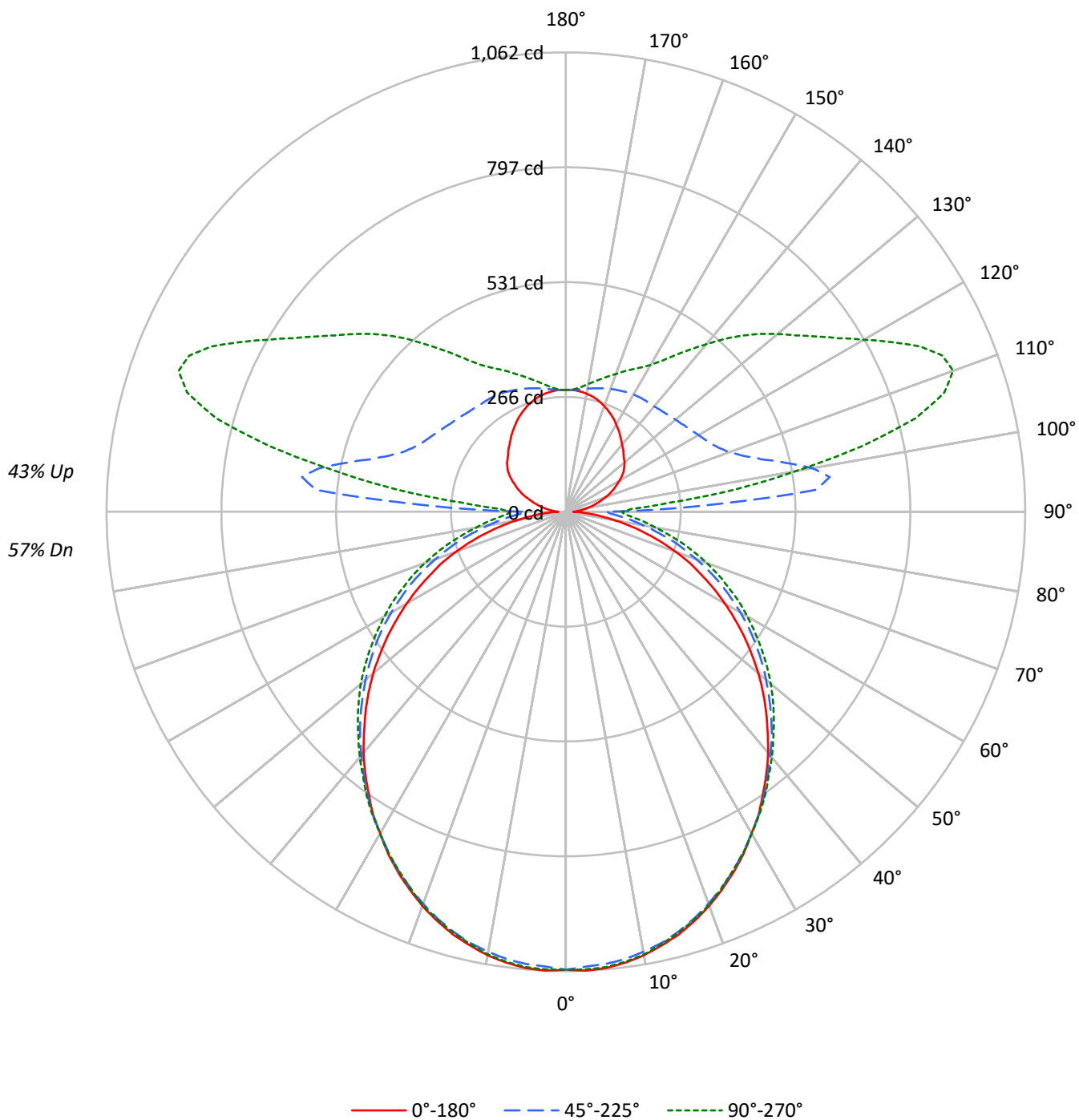
Lumens per Lamp: N/A
Luminaire Lumens: 5402.3 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1028359

CATALOG NUMBER: S125DIP-B850D610UB40-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1028359

CATALOG NUMBER: S125DIP-B850D610UB40-4F0-XX-W2A-D4

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63
1	99	94	90	86	91	87	84	80	75	73	70	64	62	60	54	53	51
2	89	81	75	69	83	76	70	65	65	61	57	56	53	50	47	45	42
3	81	71	64	57	75	67	60	54	57	52	48	49	45	42	41	38	36
4	74	63	55	48	69	59	51	46	51	45	41	44	39	35	37	33	31
5	68	56	48	41	63	52	45	39	46	39	35	39	34	31	33	29	27
6	63	50	42	36	58	47	39	34	41	35	30	35	30	27	30	26	23
7	58	45	37	31	54	42	35	30	37	31	27	32	27	24	27	24	21
8	54	41	33	28	50	39	31	26	34	28	24	29	25	21	25	21	18
9	50	38	30	25	47	35	28	23	31	25	21	27	22	19	23	19	17
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6784	6784	6784
5°	6795	6642	6658
10°	6744	6507	6488
15°	6662	6348	6278
20°	6551	6158	6071
25°	6420	5956	5819
30°	6261	5735	5590
35°	6112	5531	5379
40°	5961	5317	5167
45°	5790	5131	4976
50°	5627	4929	4804
55°	5430	4737	4603
60°	5215	4517	4398
65°	4989	4286	4167
70°	4731	3977	3926
75°	4325	3670	3633
80°	3791	3298	3308
85°	3265	3003	3137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5790 cd/sqm

TEST NUMBER: P1028359

CATALOG NUMBER: S125DIP-B850D610UB40-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.9
10°-20°	284.4	5.3
20°-30°	422.9	7.8
30°-40°	500.9	9.3
40°-50°	517.8	9.6
50°-60°	477.0	8.8
60°-70°	385.6	7.1
70°-80°	258.0	4.8
80°-90°	134.5	2.5
90°-100°	287.4	5.3
100°-110°	496.2	9.2
110°-120°	448.8	8.3
120°-130°	354.2	6.6
130°-140°	276.9	5.1
140°-150°	203.9	3.8
150°-160°	142.3	2.6
160°-170°	83.9	1.6
170°-180°	27.3	0.5
0°-30°	807.6	14.9
0°-40°	1308.5	24.2
0°-60°	2303.4	42.6
0°-90°	3081.6	57.0
90°-120°	1232.4	22.8
90°-150°	2067.4	38.3
90°-180°	2321.0	43.0
0°-180°	5402.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1059	1057	1050	1058	1057	100
15°	1011	1012	1005	1011	1007	285
25°	919	922	916	920	914	423
35°	795	802	799	802	802	498
45°	655	666	672	679	680	505
55°	504	520	537	548	552	450
65°	347	371	396	411	415	344
75°	191	218	251	272	277	202
85°	57	91	128	150	159	60
90°	17	55	94	121	129	13
95°	32	96	579	327	239	30
105°	74	116	469	889	838	78
115°	121	152	371	772	904	119
125°	163	190	341	608	706	145
135°	188	225	323	497	576	146
145°	218	249	316	399	442	136
155°	248	266	308	348	363	114
165°	270	278	296	313	318	76
175°	281	281	284	287	286	27
180°	282	282	282	282	282	

TEST NUMBER: P1028359

CATALOG NUMBER: S125DIP-B850D610UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.8	1058.8	1058.8	1058.8	1058.8
2.5°	1061.9	1059.8	1052.6	1059.8	1058.8
5°	1058.8	1056.7	1049.5	1057.8	1056.7
7.5°	1051.5	1050.5	1043.2	1050.5	1049.5
10°	1041.2	1041.2	1032.9	1040.1	1039.1
12.5°	1026.6	1027.7	1021.4	1026.6	1023.5
15°	1011.1	1012.1	1004.8	1011.1	1006.9
17.5°	991.3	993.4	986.1	991.3	988.2
20°	969.5	971.6	964.3	967.5	967.5
22.5°	944.6	948.8	940.5	944.6	941.5
25°	918.7	921.8	915.6	919.7	914.5
27.5°	890.6	894.8	887.5	890.6	888.6
30°	858.5	864.7	858.5	860.5	859.5
32.5°	829.4	834.6	830.4	832.5	831.5
35°	795.1	802.4	799.3	802.4	802.4
37.5°	761.9	768.2	767.1	771.3	770.2
40°	727.7	736.0	734.9	739.1	741.2
42.5°	690.3	701.7	704.8	710.0	710.0
45°	655.0	666.4	671.6	678.9	679.9
47.5°	618.7	629.1	637.4	647.7	649.8
50°	581.3	592.7	604.1	615.6	618.7
52.5°	541.9	556.4	570.9	583.4	585.5
55°	503.5	520.1	536.7	548.1	552.2
57.5°	464.0	483.7	502.4	514.9	518.0
60°	424.6	445.3	466.1	481.7	484.8
62.5°	386.2	406.9	429.8	447.4	451.6
65°	346.7	370.6	395.5	411.1	415.2
67.5°	310.4	333.2	358.1	376.8	382.0
70°	269.9	293.8	320.8	340.5	346.7
72.5°	230.4	255.4	285.5	307.3	311.4
75°	191.0	218.0	251.2	272.0	277.2
77.5°	152.6	183.7	214.9	237.7	241.9
80°	117.3	148.4	183.7	206.6	210.7
82.5°	85.1	118.3	154.7	176.5	184.8
85°	57.1	91.3	127.7	150.5	158.8
87.5°	36.3	69.5	104.8	128.7	136.0
90°	17.2	54.9	94.2	121.0	129.4
92.5°	23.0	91.2	307.7	164.3	153.1
95°	32.3	95.9	579.2	327.0	239.4
97.5°	41.5	97.4	615.4	505.9	393.3
100°	51.2	102.0	579.5	671.2	537.7
102.5°	62.1	108.8	521.4	810.3	700.7
105°	73.5	115.8	469.1	889.0	838.0
107.5°	84.4	124.2	429.6	908.4	918.0
110°	96.5	133.4	402.2	880.8	952.6

TEST NUMBER: P1028359

CATALOG NUMBER: S125DIP-B850D610UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.6	142.5	384.4	828.6	942.8
115°	121.0	151.9	371.2	772.0	904.1
117.5°	131.3	161.6	361.9	719.1	849.3
120°	142.7	171.7	354.4	674.8	795.4
122.5°	153.6	180.5	347.3	637.6	747.0
125°	163.3	189.5	341.0	607.6	706.5
127.5°	170.2	199.3	335.6	580.2	670.0
130°	177.5	209.5	331.4	553.6	639.2
132.5°	182.2	218.6	327.3	525.3	608.4
135°	188.5	225.2	323.1	497.1	575.9
137.5°	196.4	232.2	320.6	468.8	541.2
140°	202.2	238.2	318.0	442.5	505.7
142.5°	210.1	242.9	316.5	419.2	472.6
145°	218.1	248.6	315.9	398.7	442.3
147.5°	225.6	253.7	314.8	381.4	413.9
150°	233.0	258.2	313.1	367.6	391.9
152.5°	240.9	262.8	310.8	357.7	376.2
155°	247.7	266.5	308.0	348.0	363.1
157.5°	254.0	270.2	305.1	339.0	351.2
160°	260.2	273.0	302.3	329.8	339.2
162.5°	265.4	275.9	298.9	321.6	328.4
165°	270.5	277.9	295.5	313.4	318.2
167.5°	273.9	279.0	292.1	305.7	308.5
170°	277.3	280.5	289.2	298.3	300.0
172.5°	279.6	281.0	285.8	292.4	292.1
175°	281.3	281.3	283.5	287.0	285.8
177.5°	282.4	281.3	281.8	283.5	281.8
180°	281.8	281.8	281.8	281.8	281.8

(END OF REPORT)