

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: P1028094

Luminaire Tested: S125DIP-B610D375UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028094
REPORT IS A COMBINATION OF REPORTS P1002288 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D375UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

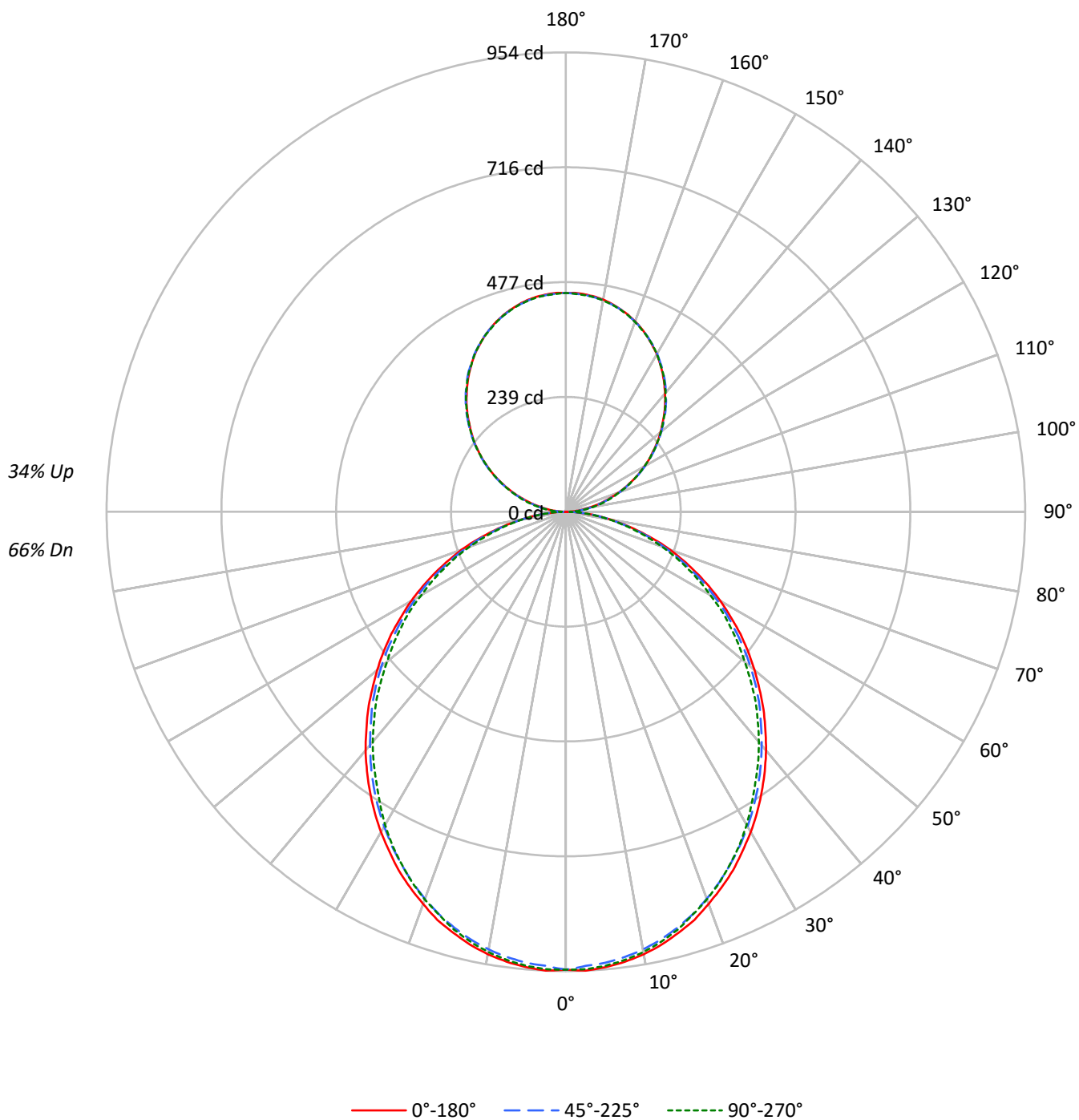
Lumens per Lamp: N/A
Luminaire Lumens: 3744.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P1028094

CATALOG NUMBER: S125DIP-B610D375UB40-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1028094

CATALOG NUMBER: S125DIP-B610D375UB40-4F0-XX-W2A-F1

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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	63	61	60
2	92	85	78	73	87	80	74	69	71	67	63	63	59	56	55	53	50
3	84	74	67	61	79	70	63	58	63	57	53	55	51	48	49	46	43
4	77	66	58	51	72	62	55	49	56	50	45	49	45	41	44	40	37
5	71	59	50	44	66	56	48	42	50	44	39	44	39	35	39	35	32
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	28
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	33	28	25
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6093	6093	6093
5°	6093	5951	5963
10°	6043	5815	5796
15°	5963	5652	5601
20°	5856	5462	5377
25°	5741	5256	5136
30°	5602	5041	4883
35°	5453	4816	4600
40°	5300	4577	4348
45°	5134	4345	4080
50°	4952	4082	3767
55°	4771	3791	3480
60°	4556	3485	3146
65°	4298	3131	2801
70°	4035	2724	2403
75°	3593	2243	1943
80°	3063	1675	1429
85°	2367	990	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5134 cd/sqm

TEST NUMBER: P1028094

CATALOG NUMBER: S125DIP-B610D375UB40-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	2.4
10°-20°	253.5	6.8
20°-30°	374.2	10.0
30°-40°	436.6	11.7
40°-50°	438.5	11.7
50°-60°	384.9	10.3
60°-70°	286.7	7.7
70°-80°	163.7	4.4
80°-90°	48.0	1.3
90°-100°	30.2	0.8
100°-110°	89.8	2.4
110°-120°	152.3	4.1
120°-130°	200.4	5.4
130°-140°	224.6	6.0
140°-150°	220.1	5.9
150°-160°	184.9	4.9
160°-170°	122.9	3.3
170°-180°	43.0	1.1
0°-30°	717.4	19.2
0°-40°	1154.0	30.8
0°-60°	1977.3	52.8
0°-90°	2475.7	66.1
90°-120°	272.3	7.3
90°-150°	917.4	24.5
90°-180°	1268.0	33.9
0°-180°	3744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	949	948	940	947	946	90
15°	905	903	894	898	898	255
25°	822	818	808	810	807	378
35°	709	706	696	692	686	444
45°	581	578	569	560	558	447
55°	442	440	430	423	418	395
65°	299	297	289	282	279	296
75°	159	157	154	151	148	169
85°	41	42	42	41	40	45
90°	0	3	6	7	8	4
95°	23	24	27	30	30	24
105°	81	82	84	87	88	86
115°	152	154	154	154	154	151
125°	222	225	225	224	224	199
135°	289	291	292	292	290	223
145°	350	352	353	353	352	219
155°	401	401	401	403	401	185
165°	436	435	436	437	435	123
175°	453	452	452	454	452	43
180°	454	454	454	454	454	

TEST NUMBER: P1028094

CATALOG NUMBER: S125DIP-B610D375UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.9	950.9	950.9	950.9	950.9
2.5°	953.9	951.7	944.1	951.7	950.9
5°	949.4	947.9	940.4	947.2	946.4
7.5°	942.6	941.1	932.9	939.6	938.9
10°	932.9	931.4	923.1	929.1	928.3
12.5°	920.8	917.8	910.3	914.8	914.8
15°	905.0	902.8	894.5	898.3	898.3
17.5°	888.5	884.7	876.4	881.0	877.2
20°	866.7	865.2	855.4	860.6	856.9
22.5°	844.8	841.8	832.8	835.8	833.6
25°	821.5	817.8	808.0	809.5	807.2
27.5°	794.4	792.2	782.4	783.2	780.9
30°	768.1	765.8	754.6	753.1	750.8
32.5°	739.5	735.8	726.0	723.0	718.5
35°	709.4	706.4	695.9	692.1	686.1
37.5°	678.6	674.8	665.0	659.8	656.0
40°	647.0	643.2	632.7	625.9	623.7
42.5°	613.1	610.1	599.6	593.6	589.8
45°	580.8	577.8	568.7	559.7	557.5
47.5°	545.4	546.2	534.9	525.9	520.6
50°	511.6	509.3	500.3	490.5	485.2
52.5°	477.0	475.5	465.7	457.4	451.4
55°	442.4	440.1	429.6	422.8	417.5
57.5°	405.5	404.7	395.7	386.7	384.4
60°	370.9	367.9	359.6	352.1	346.8
62.5°	334.8	332.5	325.7	317.5	313.7
65°	298.7	297.2	288.9	282.1	279.1
67.5°	263.3	260.3	254.3	248.3	246.8
70°	230.2	226.4	219.7	215.2	212.2
72.5°	194.1	191.8	188.1	182.8	179.8
75°	158.7	157.2	153.5	151.2	148.2
77.5°	125.6	124.9	122.6	121.1	118.9
80°	94.8	94.8	93.3	92.5	91.0
82.5°	67.7	66.2	66.2	64.7	64.7
85°	41.4	42.1	42.1	41.4	39.9
87.5°	20.3	20.3	19.6	19.6	18.1
90°	0.4	3.2	5.7	7.4	8.5
92.5°	10.6	12.4	15.6	18.0	18.7
95°	23.0	23.7	27.2	29.7	30.4
97.5°	35.4	35.7	40.7	42.8	43.1
100°	49.5	49.5	54.1	57.3	58.0
102.5°	64.7	66.5	68.3	71.8	72.9
105°	80.6	82.4	84.5	86.6	87.7
107.5°	98.0	99.7	101.5	102.6	102.6
110°	116.0	117.8	118.8	119.9	119.5



TEST NUMBER: P1028094

CATALOG NUMBER: S125DIP-B610D375UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	134.4	135.1	136.5	136.9	136.2
115°	152.4	153.8	154.5	154.2	153.8
117.5°	170.8	171.2	171.9	172.2	170.8
120°	187.8	189.6	189.9	189.9	188.5
122.5°	206.2	206.5	207.6	207.2	206.2
125°	222.4	224.6	224.9	224.2	223.9
127.5°	240.5	241.5	241.9	241.5	240.8
130°	256.4	258.2	258.9	258.5	257.8
132.5°	272.3	275.5	275.1	274.8	273.7
135°	289.3	291.4	291.8	291.8	290.3
137.5°	305.2	307.3	308.0	308.4	306.6
140°	320.4	322.2	323.2	323.9	322.2
142.5°	335.6	337.0	338.4	338.8	337.0
145°	350.5	351.9	352.9	352.9	351.9
147.5°	364.3	365.3	366.0	367.1	364.3
150°	378.0	377.7	379.1	379.1	378.4
152.5°	389.4	390.1	390.4	391.5	390.1
155°	401.0	401.0	401.4	402.8	401.0
157.5°	411.6	410.9	411.3	412.7	410.2
160°	420.8	419.8	420.1	421.5	419.8
162.5°	429.0	428.3	428.3	430.0	427.9
165°	436.0	435.3	435.7	437.1	435.0
167.5°	442.4	441.0	441.0	443.1	441.0
170°	447.4	445.9	445.9	448.1	445.6
172.5°	450.9	449.5	449.5	451.6	449.5
175°	453.4	452.0	452.0	454.1	451.6
177.5°	455.1	453.7	453.4	455.5	453.0
180°	454.4	454.4	454.4	454.4	454.4

(END OF REPORT)