

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: P1027683

Luminaire Tested: S125DIP-B1270D610UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027683
REPORT IS A COMBINATION OF REPORTS P1001736 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

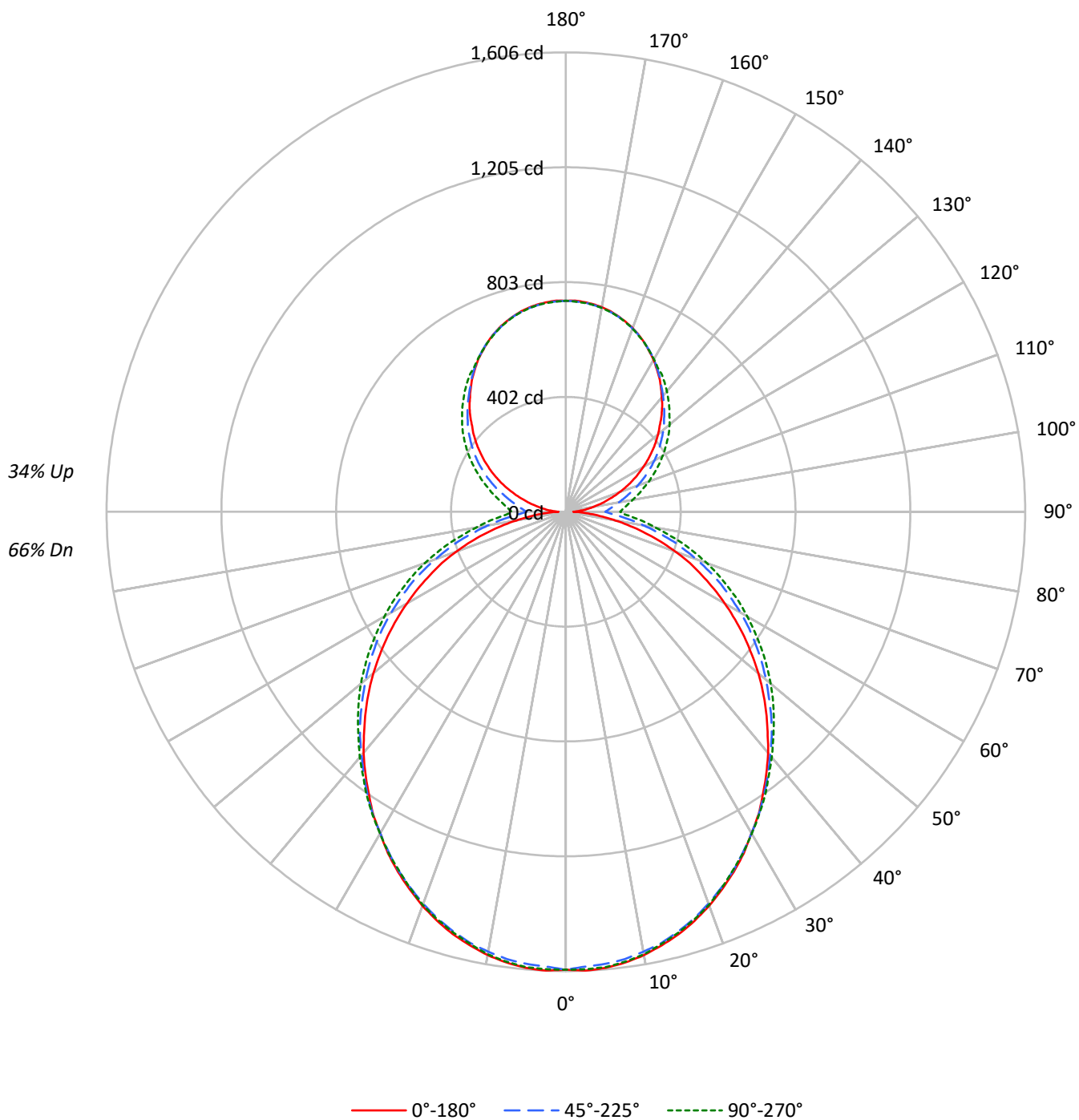
Lumens per Lamp: N/A
Luminaire Lumens: 7019.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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: P1027683

CATALOG NUMBER: S125DIP-B1270D610UB35-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1027683

CATALOG NUMBER: S125DIP-B1270D610UB35-4F0-XX-W2A-D1

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	105	105	105	105	92	92	92	81	81	81	71	71	71
1	100	96	91	87	94	90	86	83	80	77	74	70	68	66	61	60	58
2	91	83	76	71	85	78	72	67	69	65	61	61	57	54	53	51	48
3	83	73	65	58	78	69	61	56	61	55	51	54	49	45	47	44	41
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	42	38	35
5	70	57	48	42	65	54	46	40	48	42	37	43	38	33	38	33	30
6	64	51	43	37	60	49	41	35	43	37	32	39	33	29	34	30	26
7	59	46	38	32	56	44	36	31	39	33	28	35	30	26	31	27	23
8	55	42	34	28	52	40	32	27	36	30	25	32	27	23	29	24	21
9	51	38	31	25	48	37	29	24	33	27	23	30	24	21	26	22	19
10	48	35	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10256	10256	10256
5°	10273	10042	10066
10°	10196	9837	9809
15°	10072	9599	9492
20°	9904	9311	9178
25°	9706	9004	8798
30°	9466	8671	8452
35°	9241	8362	8133
40°	9013	8038	7812
45°	8754	7757	7523
50°	8507	7452	7263
55°	8210	7161	6960
60°	7884	6830	6649
65°	7543	6479	6301
70°	7152	6011	5936
75°	6539	5549	5492
80°	5729	4988	5002
85°	4934	4538	4743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8754 cd/sqm

TEST NUMBER: P1027683

CATALOG NUMBER: S125DIP-B1270D610UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	2.2
10°-20°	430.0	6.1
20°-30°	639.5	9.1
30°-40°	757.3	10.8
40°-50°	782.9	11.2
50°-60°	721.2	10.3
60°-70°	583.0	8.3
70°-80°	390.1	5.6
80°-90°	202.8	2.9
90°-100°	162.6	2.3
100°-110°	229.5	3.3
110°-120°	303.2	4.3
120°-130°	357.1	5.1
130°-140°	378.5	5.4
140°-150°	360.1	5.1
150°-160°	300.2	4.3
160°-170°	199.5	2.8
170°-180°	69.8	1.0
0°-30°	1221.0	17.4
0°-40°	1978.3	28.2
0°-60°	3482.4	49.6
0°-90°	4658.4	66.4
90°-120°	695.3	9.9
90°-150°	1791.0	25.5
90°-180°	2361.0	33.6
0°-180°	7019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1601	1598	1587	1599	1598	152
15°	1529	1530	1519	1529	1522	431
25°	1389	1394	1384	1390	1383	639
35°	1202	1213	1208	1213	1213	753
45°	990	1008	1015	1026	1028	764
55°	761	786	811	829	835	680
65°	524	560	598	622	628	520
75°	289	330	380	411	419	306
85°	86	138	193	228	240	90
90°	26	80	138	177	190	20
95°	58	100	159	197	210	55
105°	145	173	224	258	271	155
115°	257	270	312	340	349	254
125°	367	369	401	425	432	329
135°	473	475	486	507	512	364
145°	570	571	573	581	585	356
155°	651	651	652	654	651	300
165°	708	707	707	710	706	200
175°	736	734	734	737	733	70
180°	738	738	738	738	738	

TEST NUMBER: P1027683

CATALOG NUMBER: S125DIP-B1270D610UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.8	1600.8	1600.8	1600.8	1600.8
2.5°	1605.5	1602.4	1591.4	1602.4	1600.8
5°	1600.8	1597.7	1586.7	1599.2	1597.7
7.5°	1589.8	1588.2	1577.3	1588.2	1586.7
10°	1574.1	1574.1	1561.6	1572.6	1571.0
12.5°	1552.1	1553.7	1544.3	1552.1	1547.4
15°	1528.6	1530.2	1519.2	1528.6	1522.3
17.5°	1498.8	1501.9	1490.9	1498.8	1494.1
20°	1465.8	1469.0	1458.0	1462.7	1462.7
22.5°	1428.2	1434.4	1421.9	1428.2	1423.5
25°	1388.9	1393.6	1384.2	1390.5	1382.7
27.5°	1346.6	1352.8	1341.8	1346.6	1343.4
30°	1297.9	1307.3	1297.9	1301.0	1299.5
32.5°	1254.0	1261.8	1255.5	1258.7	1257.1
35°	1202.2	1213.2	1208.4	1213.2	1213.2
37.5°	1151.9	1161.4	1159.8	1166.1	1164.5
40°	1100.2	1112.7	1111.1	1117.4	1120.6
42.5°	1043.7	1060.9	1065.6	1073.5	1073.5
45°	990.3	1007.6	1015.4	1026.4	1028.0
47.5°	935.4	951.1	963.6	979.3	982.5
50°	878.9	896.1	913.4	930.7	935.4
52.5°	819.2	841.2	863.2	882.0	885.1
55°	761.2	786.3	811.4	828.6	834.9
57.5°	701.5	731.3	759.6	778.4	783.1
60°	641.9	673.3	704.7	728.2	732.9
62.5°	583.8	615.2	649.7	676.4	682.7
65°	524.2	560.3	597.9	621.5	627.8
67.5°	469.3	503.8	541.4	569.7	577.5
70°	408.0	444.1	484.9	514.8	524.2
72.5°	348.4	386.1	431.6	464.5	470.8
75°	288.8	329.6	379.8	411.2	419.0
77.5°	230.7	277.8	324.9	359.4	365.7
80°	177.3	224.4	277.8	312.3	318.6
82.5°	128.7	178.9	233.8	266.8	279.4
85°	86.3	138.1	193.0	227.6	240.1
87.5°	54.9	105.2	158.5	194.6	205.6
90°	25.7	80.5	137.9	176.9	189.6
92.5°	39.2	87.6	147.7	186.2	198.3
95°	57.7	99.7	158.8	197.3	209.5
97.5°	76.2	114.5	174.3	210.7	222.2
100°	97.7	130.6	188.2	226.4	236.9
102.5°	120.8	153.4	205.0	242.1	253.3
105°	145.0	173.0	223.5	258.4	271.1
107.5°	171.6	196.4	244.8	277.9	287.3
110°	199.3	221.0	266.7	298.2	308.6



TEST NUMBER: P1027683

CATALOG NUMBER: S125DIP-B1270D610UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	229.2	244.4	289.1	317.9	327.7
115°	256.8	270.1	312.1	339.8	348.6
117.5°	285.1	293.6	333.9	361.2	369.9
120°	312.6	320.3	357.0	383.6	390.7
122.5°	341.0	343.1	379.4	403.9	411.6
125°	367.4	369.2	401.2	425.2	432.5
127.5°	395.1	395.2	422.5	445.5	453.8
130°	420.9	422.2	445.3	466.8	473.4
132.5°	445.1	450.3	465.4	486.9	491.4
135°	472.7	474.6	486.2	506.6	512.1
137.5°	498.5	500.5	507.8	527.3	530.7
140°	521.7	524.6	527.8	546.3	549.7
142.5°	546.4	547.1	549.4	564.1	567.5
145°	570.5	571.2	572.9	580.7	585.3
147.5°	591.3	593.0	594.2	599.0	597.6
150°	613.7	613.1	615.4	615.4	615.9
152.5°	632.1	633.2	633.8	635.5	633.2
155°	651.0	651.0	651.6	653.9	651.0
157.5°	668.2	667.1	667.7	670.0	665.9
160°	683.2	681.4	682.0	684.3	681.4
162.5°	696.4	695.2	695.2	698.1	694.6
165°	707.8	706.7	707.3	709.6	706.1
167.5°	718.2	715.9	715.9	719.3	715.9
170°	726.2	723.9	723.9	727.4	723.3
172.5°	732.0	729.7	729.7	733.1	729.7
175°	736.0	733.7	733.7	737.1	733.1
177.5°	738.8	736.5	736.0	739.4	735.4
180°	737.7	737.7	737.7	737.7	737.7

(END OF REPORT)