

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: P1027909

Luminaire Tested: S125DIP-B375D610UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027909
REPORT IS A COMBINATION OF REPORTS P1002040 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D610UB35-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

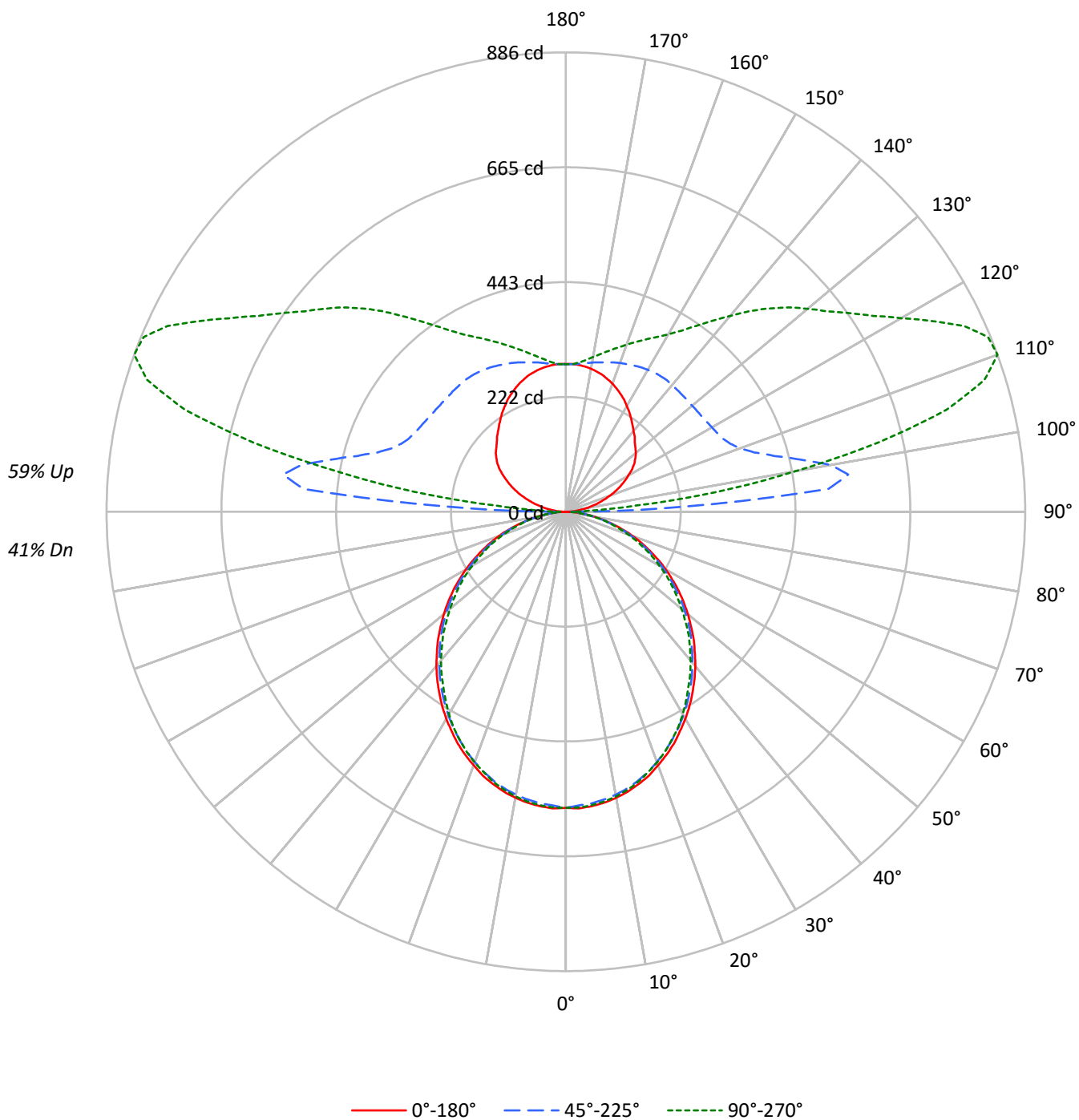
Lumens per Lamp: N/A
Luminaire Lumens: 3630.3 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 28.4
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: P1027909

CATALOG NUMBER: S125DIP-B375D610UB35-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1027909

CATALOG NUMBER: S125DIP-B375D610UB35-4F0-XX-W2A-F4

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	96	96	96	96	78	78	78	62	62	62	48	48	48
1	96	91	88	84	87	83	80	77	69	66	64	55	53	52	42	41	40
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17
8	52	40	33	27	48	37	30	26	31	26	22	25	21	19	20	17	15
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	14
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3658	3658	3658
5°	3658	3573	3580
10°	3628	3491	3480
15°	3580	3393	3363
20°	3516	3280	3228
25°	3446	3156	3084
30°	3364	3026	2932
35°	3274	2891	2761
40°	3183	2748	2610
45°	3083	2609	2450
50°	2973	2451	2262
55°	2865	2276	2090
60°	2735	2092	1889
65°	2580	1879	1682
70°	2423	1635	1443
75°	2158	1346	1167
80°	1839	1005	859
85°	1418	595	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3083 cd/sqm

TEST NUMBER: P1027909

CATALOG NUMBER: S125DIP-B375D610UB35-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.5
10°-20°	152.2	4.2
20°-30°	224.7	6.2
30°-40°	262.1	7.2
40°-50°	263.3	7.3
50°-60°	231.1	6.4
60°-70°	172.1	4.7
70°-80°	98.3	2.7
80°-90°	29.5	0.8
90°-100°	214.4	5.9
100°-110°	445.4	12.3
110°-120°	416.0	11.5
120°-130°	336.7	9.3
130°-140°	270.5	7.5
140°-150°	204.2	5.6
150°-160°	143.7	4.0
160°-170°	84.7	2.3
170°-180°	27.5	0.8
0°-30°	430.7	11.9
0°-40°	692.8	19.1
0°-60°	1187.2	32.7
0°-90°	1487.1	41.0
90°-120°	1075.9	29.6
90°-150°	1887.2	52.0
90°-180°	2143.0	59.0
0°-180°	3630.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	570	569	565	569	568	54
15°	543	542	537	539	539	153
25°	493	491	485	486	485	227
35°	426	424	418	416	412	266
45°	349	347	342	336	335	269
55°	266	264	258	254	251	237
65°	179	178	173	169	168	178
75°	95	94	92	91	89	101
85°	25	25	25	25	24	27
90°	1	5	9	12	13	3
95°	19	56	509	231	135	20
105°	65	91	416	820	761	68
115°	116	140	334	720	847	114
125°	161	188	320	573	668	143
135°	188	226	318	480	555	146
145°	219	251	319	398	438	137
155°	250	269	311	352	367	115
165°	273	281	298	317	322	77
175°	284	284	286	290	289	27
180°	285	285	285	285	285	

TEST NUMBER: P1027909

CATALOG NUMBER: S125DIP-B375D610UB35-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.9	570.9	570.9	570.9	570.9
2.5°	572.7	571.4	566.9	571.4	570.9
5°	570.0	569.1	564.6	568.7	568.2
7.5°	566.0	565.1	560.1	564.2	563.7
10°	560.1	559.2	554.2	557.8	557.4
12.5°	552.9	551.1	546.5	549.3	549.3
15°	543.4	542.0	537.1	539.3	539.3
17.5°	533.4	531.2	526.2	528.9	526.7
20°	520.3	519.4	513.6	516.7	514.5
22.5°	507.2	505.4	500.0	501.8	500.5
25°	493.2	491.0	485.1	486.0	484.7
27.5°	477.0	475.6	469.8	470.2	468.9
30°	461.2	459.8	453.0	452.1	450.8
32.5°	444.0	441.8	435.9	434.1	431.4
35°	425.9	424.1	417.8	415.6	411.9
37.5°	407.4	405.2	399.3	396.1	393.9
40°	388.5	386.2	379.9	375.8	374.4
42.5°	368.1	366.3	360.0	356.4	354.1
45°	348.7	346.9	341.5	336.1	334.7
47.5°	327.5	327.9	321.2	315.7	312.6
50°	307.1	305.8	300.4	294.5	291.3
52.5°	286.4	285.5	279.6	274.6	271.0
55°	265.6	264.2	257.9	253.8	250.7
57.5°	243.5	243.0	237.6	232.2	230.8
60°	222.7	220.9	215.9	211.4	208.2
62.5°	201.0	199.6	195.6	190.6	188.4
65°	179.3	178.4	173.4	169.4	167.6
67.5°	158.1	156.3	152.7	149.1	148.2
70°	138.2	136.0	131.9	129.2	127.4
72.5°	116.5	115.2	112.9	109.8	108.0
75°	95.3	94.4	92.1	90.8	89.0
77.5°	75.4	75.0	73.6	72.7	71.4
80°	56.9	56.9	56.0	55.6	54.7
82.5°	40.7	39.7	39.7	38.8	38.8
85°	24.8	25.3	25.3	24.8	23.9
87.5°	12.2	12.2	11.7	11.7	10.8
90°	0.6	5.2	9.2	12.0	13.2
92.5°	8.6	47.0	229.1	61.2	42.5
95°	18.9	56.0	508.7	230.8	134.9
97.5°	29.3	60.6	549.4	416.8	295.7
100°	40.2	69.5	518.4	589.0	447.8
102.5°	52.2	79.5	463.9	734.9	617.8
105°	64.9	90.7	416.2	819.6	760.7
107.5°	76.9	102.5	380.6	843.4	846.8
110°	90.1	114.8	357.1	820.7	885.9

TEST NUMBER: P1027909

CATALOG NUMBER: S125DIP-B375D610UB35-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.3	127.2	343.3	773.4	881.3
115°	116.0	139.8	334.1	720.2	847.4
117.5°	127.5	152.7	329.0	672.0	796.3
120°	138.9	165.0	325.5	631.6	746.9
122.5°	151.0	177.1	322.7	599.1	703.3
125°	160.8	188.3	320.4	573.0	667.7
127.5°	168.8	199.2	319.2	550.6	635.0
130°	176.3	209.6	318.1	527.9	609.1
132.5°	182.0	218.8	318.1	503.5	583.3
135°	188.3	226.4	318.1	480.2	554.6
137.5°	196.4	233.6	318.6	455.8	524.7
140°	203.2	239.6	319.2	433.4	493.2
142.5°	211.3	245.4	319.8	414.2	463.9
145°	219.3	251.2	319.2	397.6	437.5
147.5°	227.9	256.4	318.1	383.2	413.9
150°	235.4	261.0	316.3	371.5	395.0
152.5°	243.4	265.5	314.0	361.4	380.1
155°	250.3	269.2	311.2	351.6	366.9
157.5°	256.6	273.0	308.3	342.4	354.8
160°	262.9	275.9	305.4	333.3	342.8
162.5°	268.1	278.7	302.0	325.0	331.8
165°	273.3	280.8	298.5	316.6	321.5
167.5°	276.7	281.8	295.1	308.8	311.7
170°	280.2	283.4	292.2	301.4	303.1
172.5°	282.5	283.9	288.8	295.4	295.1
175°	284.2	284.2	286.5	289.9	288.8
177.5°	285.3	284.2	284.8	286.5	284.8
180°	284.8	284.8	284.8	284.8	284.8

(END OF REPORT)