

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: P1025682

Luminaire Tested: S124DIP-B575D810UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025682
REPORT IS A COMBINATION OF REPORTS P996297 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D810UB35-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

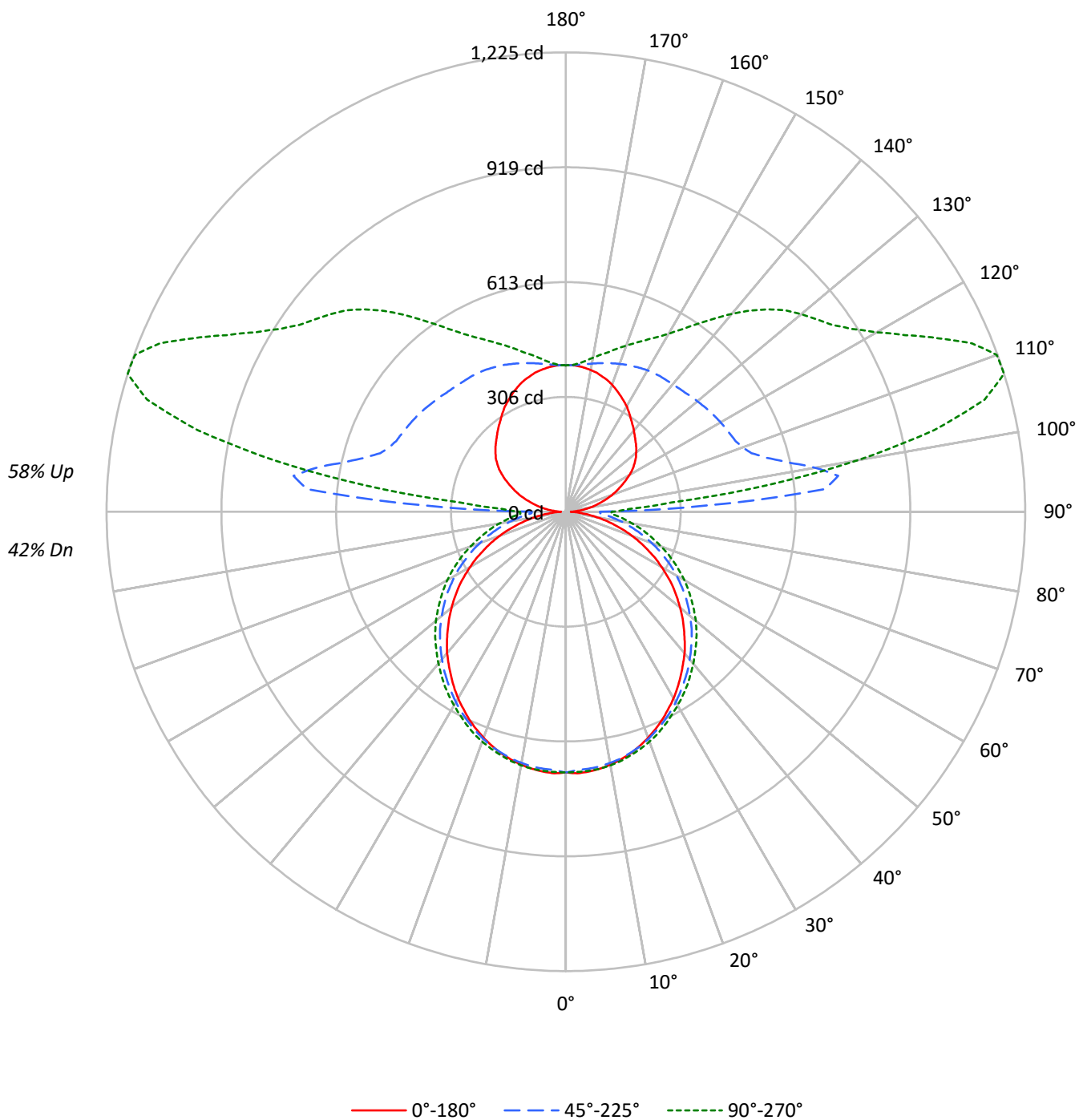
Lumens per Lamp: N/A
Luminaire Lumens: 5220.7 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
Input Voltage (V):
Input Current (A_{in}): 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: P1025682

CATALOG NUMBER: S124DIP-B575D810UB35-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



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CATALOG NUMBER: S124DIP-B575D810UB35-4F0-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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	95	91	86	83	87	83	79	76	68	65	63	54	52	51	42	41	39
2	86	79	72	67	78	72	66	61	59	55	51	47	44	42	36	34	33
3	78	69	61	55	71	63	56	51	52	47	43	41	38	35	32	29	27
4	72	61	52	46	65	55	48	43	46	40	36	37	33	30	28	26	23
5	66	54	45	39	59	49	42	37	41	35	31	33	29	25	25	22	20
6	60	48	40	34	55	44	37	32	37	31	27	29	25	22	23	20	18
7	56	43	35	30	51	40	33	28	33	27	23	27	23	19	21	18	15
8	52	39	31	26	47	36	29	24	30	25	21	24	20	17	19	16	14
9	48	36	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5668	5668	5668
5°	5684	5521	5531
10°	5647	5412	5397
15°	5594	5290	5246
20°	5516	5157	5098
25°	5428	5012	4940
30°	5333	4868	4779
35°	5224	4720	4635
40°	5137	4578	4486
45°	5010	4445	4354
50°	4901	4294	4216
55°	4787	4148	4055
60°	4611	3967	3905
65°	4419	3772	3724
70°	4185	3547	3514
75°	3859	3300	3315
80°	3488	3046	3106
85°	3005	2793	2937

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5010 cd/sqm

TEST NUMBER: P1025682

CATALOG NUMBER: S124DIP-B575D810UB35-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.3
10°-20°	188.7	3.6
20°-30°	285.3	5.5
30°-40°	345.2	6.6
40°-50°	364.9	7.0
50°-60°	343.5	6.6
60°-70°	285.0	5.5
70°-80°	200.0	3.8
80°-90°	114.3	2.2
90°-100°	357.1	6.8
100°-110°	639.5	12.3
110°-120°	559.1	10.7
120°-130°	460.4	8.8
130°-140°	376.7	7.2
140°-150°	283.1	5.4
150°-160°	197.8	3.8
160°-170°	116.4	2.2
170°-180°	37.8	0.7
0°-30°	539.9	10.3
0°-40°	885.1	17.0
0°-60°	1593.5	30.5
0°-90°	2192.8	42.0
90°-120°	1555.8	29.8
90°-150°	2675.9	51.3
90°-180°	3028.0	58.0
0°-180°	5220.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	696	694	688	694	694	66
15°	667	668	666	673	672	188
25°	610	615	617	626	627	281
35°	534	543	551	562	564	334
45°	445	460	475	488	492	344
55°	349	365	388	404	409	311
65°	241	266	293	312	318	239
75°	134	163	195	217	224	142
85°	41	74	109	132	140	43
90°	13	50	91	115	122	10
95°	35	116	693	398	283	36
105°	97	153	555	1154	1156	104
115°	163	210	485	916	1095	162
125°	223	264	468	770	868	199
135°	263	313	450	671	764	204
145°	302	345	440	554	611	190
155°	343	370	428	485	506	158
165°	374	385	410	434	441	106
175°	390	390	394	399	397	37
180°	390	390	390	390	390	

TEST NUMBER: P1025682

CATALOG NUMBER: S124DIP-B575D810UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.1	695.1	695.1	695.1	695.1
2.5°	698.2	695.9	689.7	695.1	694.4
5°	695.9	693.6	688.1	694.4	693.6
7.5°	691.2	689.7	685.0	692.0	691.2
10°	685.0	684.2	680.3	687.4	686.6
12.5°	676.5	676.5	674.1	680.3	680.3
15°	667.1	667.9	665.6	672.6	671.8
17.5°	654.7	657.0	656.2	663.2	662.4
20°	641.4	643.8	644.5	652.3	652.3
22.5°	626.6	629.7	631.3	639.1	640.6
25°	610.3	615.0	617.3	625.9	626.6
27.5°	592.4	599.4	602.5	610.3	611.1
30°	574.5	580.7	586.2	594.7	596.3
32.5°	555.0	562.8	569.0	579.1	580.7
35°	534.0	543.3	551.1	562.0	564.4
37.5°	513.0	523.9	533.2	544.1	546.5
40°	492.7	502.9	513.8	525.4	528.6
42.5°	469.4	481.1	494.3	507.5	509.9
45°	445.3	460.1	474.8	488.1	492.0
47.5°	422.7	437.5	454.6	467.8	472.5
50°	397.8	414.9	432.0	447.6	452.3
52.5°	372.9	390.0	410.2	425.8	430.5
55°	348.7	365.1	388.4	404.0	408.7
57.5°	321.5	341.7	364.3	383.0	386.9
60°	295.0	315.3	341.0	358.9	365.1
62.5°	269.3	291.9	317.6	335.5	341.7
65°	241.3	266.2	292.7	312.1	318.4
67.5°	214.8	241.3	269.3	288.8	295.0
70°	187.6	214.1	243.6	264.7	270.1
72.5°	161.1	188.4	220.3	240.5	246.8
75°	133.9	162.7	195.4	217.2	224.2
77.5°	108.2	138.6	172.8	194.6	202.4
80°	84.8	116.0	150.2	173.6	179.8
82.5°	61.5	94.2	128.4	152.6	159.6
85°	41.3	74.0	109.0	132.3	140.1
87.5°	25.7	57.6	91.9	114.4	121.4
90°	13.3	49.7	90.9	114.9	122.0
92.5°	22.4	97.9	373.1	193.5	170.2
95°	35.4	115.6	692.8	398.2	282.9
97.5°	51.5	120.1	732.6	716.2	540.6
100°	66.9	128.5	675.9	954.6	789.0
102.5°	82.2	139.2	606.8	1101.8	1006.0
105°	96.7	152.6	554.6	1154.2	1156.3
107.5°	114.4	167.1	519.2	1133.1	1225.2
110°	131.2	180.8	501.5	1067.1	1222.9

TEST NUMBER: P1025682

CATALOG NUMBER: S124DIP-B575D810UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.3	195.5	490.7	987.2	1172.9
115°	162.7	210.0	485.3	915.8	1095.4
117.5°	179.6	224.0	480.6	858.2	1020.2
120°	195.7	237.0	476.7	817.9	957.2
122.5°	211.0	250.5	472.1	790.7	906.5
125°	223.2	263.8	468.2	770.3	868.1
127.5°	235.5	277.7	462.8	749.8	842.8
130°	244.7	290.4	458.1	727.2	819.7
132.5°	254.6	301.8	454.2	701.0	795.0
135°	263.2	313.0	449.6	670.7	763.5
137.5°	272.4	321.8	446.5	639.2	727.5
140°	282.3	330.6	443.4	608.4	689.0
142.5°	292.3	338.7	441.8	580.4	648.3
145°	302.2	345.2	440.3	553.8	611.4
147.5°	313.7	352.0	438.0	531.2	576.9
150°	324.5	358.6	435.7	513.1	547.6
152.5°	333.7	364.7	431.8	498.6	524.6
155°	342.9	370.0	428.0	484.8	505.5
157.5°	352.1	375.1	424.2	471.8	487.8
160°	360.5	379.3	419.6	458.6	471.7
162.5°	368.2	382.8	415.0	446.0	456.4
165°	373.5	385.0	410.4	434.5	441.0
167.5°	379.7	387.0	405.8	424.6	428.8
170°	383.5	388.5	401.1	414.6	417.3
172.5°	387.3	389.6	396.5	405.8	405.8
175°	389.6	390.4	393.5	398.8	397.3
177.5°	391.2	390.4	391.2	393.8	391.2
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)