

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: P1025457

Luminaire Tested: S124DIP-B350D810UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025457
REPORT IS A COMBINATION OF REPORTS P995997 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D810UB35-4F0-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

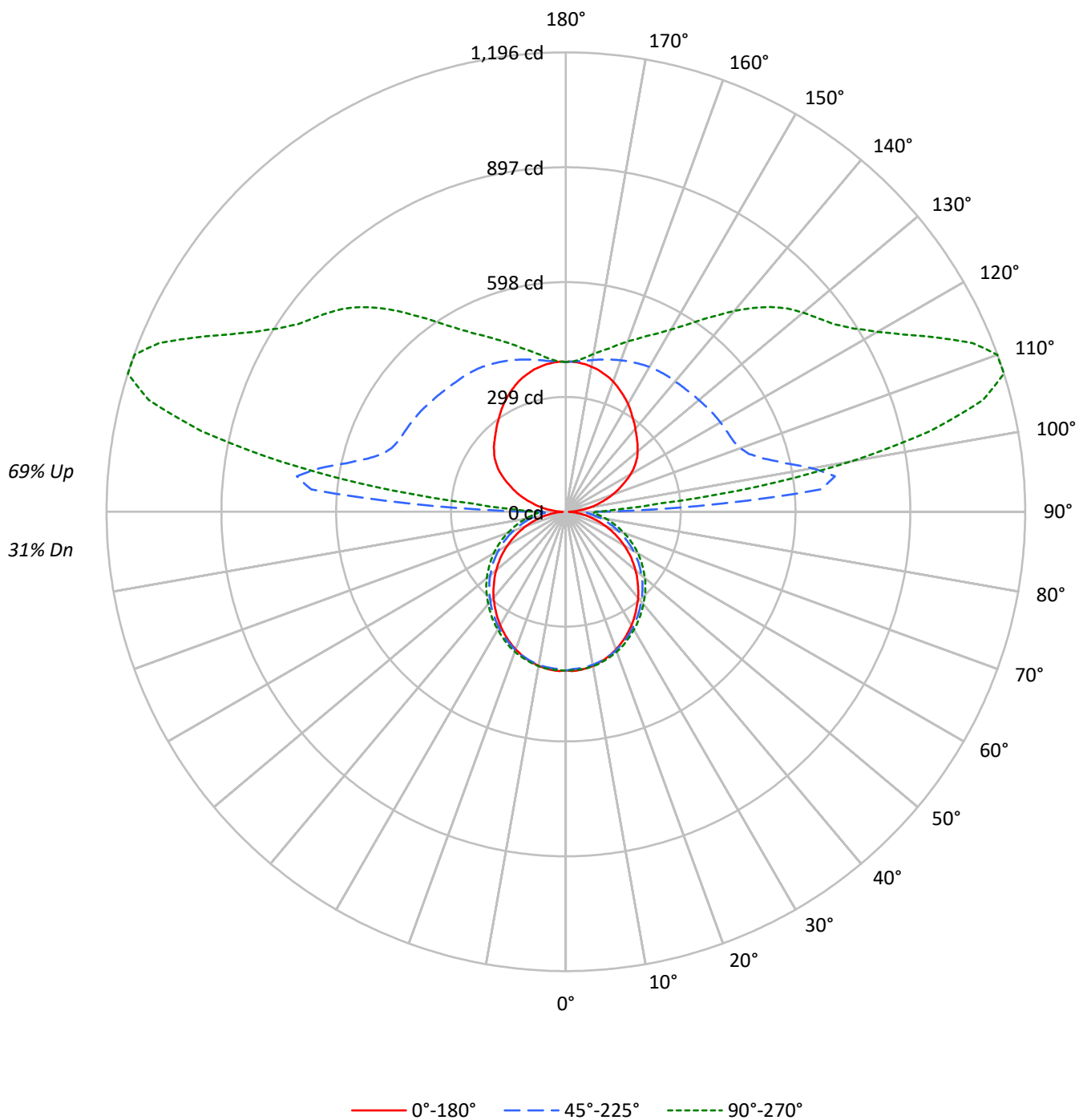
Lumens per Lamp: N/A
Luminaire Lumens: 4259.7 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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: P1025457

CATALOG NUMBER: S124DIP-B350D810UB35-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1025457

CATALOG NUMBER: S124DIP-B350D810UB35-4F0-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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38
1	93	88	84	81	83	79	76	73	63	60	58	47	46	44	33	32	31
2	84	77	71	65	75	69	64	59	54	51	48	41	38	36	29	27	26
3	77	67	60	54	68	60	54	49	48	43	40	36	33	30	25	23	22
4	70	59	51	45	62	53	47	41	42	37	33	32	28	26	22	20	18
5	64	53	44	39	57	47	40	35	38	32	29	28	25	22	20	18	16
6	59	47	39	33	52	42	35	30	34	29	25	26	22	19	18	16	14
7	54	42	34	29	48	38	31	26	30	25	22	23	20	17	16	14	12
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11
9	47	35	27	22	42	31	25	20	25	20	17	19	16	13	14	11	10
10	43	32	25	20	39	29	22	18	23	18	15	18	14	12	13	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3370	3370	3370
5°	3379	3282	3288
10°	3358	3218	3209
15°	3326	3145	3119
20°	3279	3066	3031
25°	3227	2980	2937
30°	3170	2894	2841
35°	3106	2806	2755
40°	3054	2721	2667
45°	2978	2643	2589
50°	2913	2552	2506
55°	2846	2466	2411
60°	2742	2358	2321
65°	2628	2242	2214
70°	2488	2110	2089
75°	2294	1962	1971
80°	2073	1811	1847
85°	1783	1660	1746

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2978 cd/sqm

TEST NUMBER: P1025457

CATALOG NUMBER: S124DIP-B350D810UB35-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.9
10°-20°	112.2	2.6
20°-30°	169.6	4.0
30°-40°	205.2	4.8
40°-50°	217.0	5.1
50°-60°	204.2	4.8
60°-70°	169.4	4.0
70°-80°	118.9	2.8
80°-90°	68.5	1.6
90°-100°	329.9	7.7
100°-110°	619.4	14.5
110°-120°	545.6	12.8
120°-130°	452.8	10.6
130°-140°	373.3	8.8
140°-150°	282.4	6.6
150°-160°	197.8	4.6
160°-170°	116.4	2.7
170°-180°	37.8	0.9
0°-30°	321.0	7.5
0°-40°	526.2	12.4
0°-60°	947.4	22.2
0°-90°	1304.2	30.6
90°-120°	1494.9	35.1
90°-150°	2603.4	61.1
90°-180°	2955.0	69.4
0°-180°	4259.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	414	412	409	413	412	39
15°	397	397	396	400	399	112
25°	363	366	367	372	372	167
35°	318	323	328	334	336	199
45°	265	274	282	290	292	205
55°	207	217	231	240	243	185
65°	144	158	174	186	189	142
75°	80	97	116	129	133	85
85°	24	44	65	79	83	26
90°	8	32	60	74	79	7
95°	31	101	665	362	244	33
105°	94	143	534	1126	1125	100
115°	161	205	470	894	1071	160
125°	222	263	459	755	851	198
135°	262	312	447	663	754	203
145°	302	345	440	552	608	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: P1025457

CATALOG NUMBER: S124DIP-B350D810UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	413.3	413.3	413.3	413.3	413.3
2.5°	415.1	413.7	410.0	413.3	412.8
5°	413.7	412.3	409.1	412.8	412.3
7.5°	411.0	410.0	407.3	411.4	411.0
10°	407.3	406.8	404.5	408.6	408.2
12.5°	402.2	402.2	400.8	404.5	404.5
15°	396.6	397.1	395.7	399.8	399.4
17.5°	389.2	390.6	390.1	394.3	393.8
20°	381.3	382.7	383.2	387.8	387.8
22.5°	372.5	374.4	375.3	379.9	380.9
25°	362.8	365.6	367.0	372.1	372.5
27.5°	352.2	356.3	358.2	362.8	363.3
30°	341.5	345.2	348.5	353.6	354.5
32.5°	330.0	334.6	338.3	344.3	345.2
35°	317.5	323.0	327.7	334.1	335.5
37.5°	305.0	311.5	317.0	323.5	324.9
40°	292.9	299.0	305.4	312.4	314.2
42.5°	279.1	286.0	293.9	301.7	303.1
45°	264.7	273.5	282.3	290.2	292.5
47.5°	251.3	260.1	270.3	278.1	280.9
50°	236.5	246.7	256.8	266.1	268.9
52.5°	221.7	231.9	243.9	253.1	255.9
55°	207.3	217.0	230.9	240.2	243.0
57.5°	191.1	203.2	216.6	227.7	230.0
60°	175.4	187.4	202.7	213.3	217.0
62.5°	160.1	173.5	188.8	199.5	203.2
65°	143.5	158.3	174.0	185.6	189.3
67.5°	127.7	143.5	160.1	171.7	175.4
70°	111.5	127.3	144.9	157.3	160.6
72.5°	95.8	112.0	131.0	143.0	146.7
75°	79.6	96.7	116.2	129.1	133.3
77.5°	64.3	82.4	102.7	115.7	120.3
80°	50.4	69.0	89.3	103.2	106.9
82.5°	36.6	56.0	76.4	90.7	94.9
85°	24.5	44.0	64.8	78.7	83.3
87.5°	15.3	34.2	54.6	68.0	72.2
90°	8.2	32.0	59.6	74.5	79.0
92.5°	17.6	82.2	343.7	155.3	129.5
95°	31.3	101.1	665.4	362.3	244.1
97.5°	47.8	107.2	706.7	682.0	503.6
100°	63.4	116.8	651.9	922.1	754.3
102.5°	78.7	128.8	584.4	1071.2	972.9
105°	93.9	143.4	533.7	1125.5	1125.0
107.5°	111.6	158.9	499.9	1106.0	1195.8
110°	128.7	174.0	483.5	1041.8	1195.1

TEST NUMBER: P1025457

CATALOG NUMBER: S124DIP-B350D810UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.1	189.5	474.3	963.8	1147.0
115°	160.8	205.2	470.5	894.0	1071.4
117.5°	177.7	220.4	467.3	838.4	997.8
120°	194.1	234.6	465.0	799.9	936.7
122.5°	209.4	248.9	462.0	774.3	887.9
125°	222.0	263.0	459.4	755.4	851.3
127.5°	234.3	276.8	455.5	737.0	827.6
130°	243.8	289.7	452.4	715.8	806.4
132.5°	253.7	301.2	449.8	691.2	783.3
135°	262.5	312.3	446.8	662.8	753.7
137.5°	271.7	321.5	444.9	632.8	719.6
140°	281.6	330.3	442.7	603.6	682.7
142.5°	292.0	338.4	441.8	576.9	643.5
145°	301.9	345.2	440.3	551.9	608.2
147.5°	313.4	352.0	438.0	530.9	575.3
150°	324.2	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)