

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: P1025314

Luminaire Tested: S124DIP-B350D1205UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025314
REPORT IS A COMBINATION OF REPORTS P995809 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D1205UB30-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

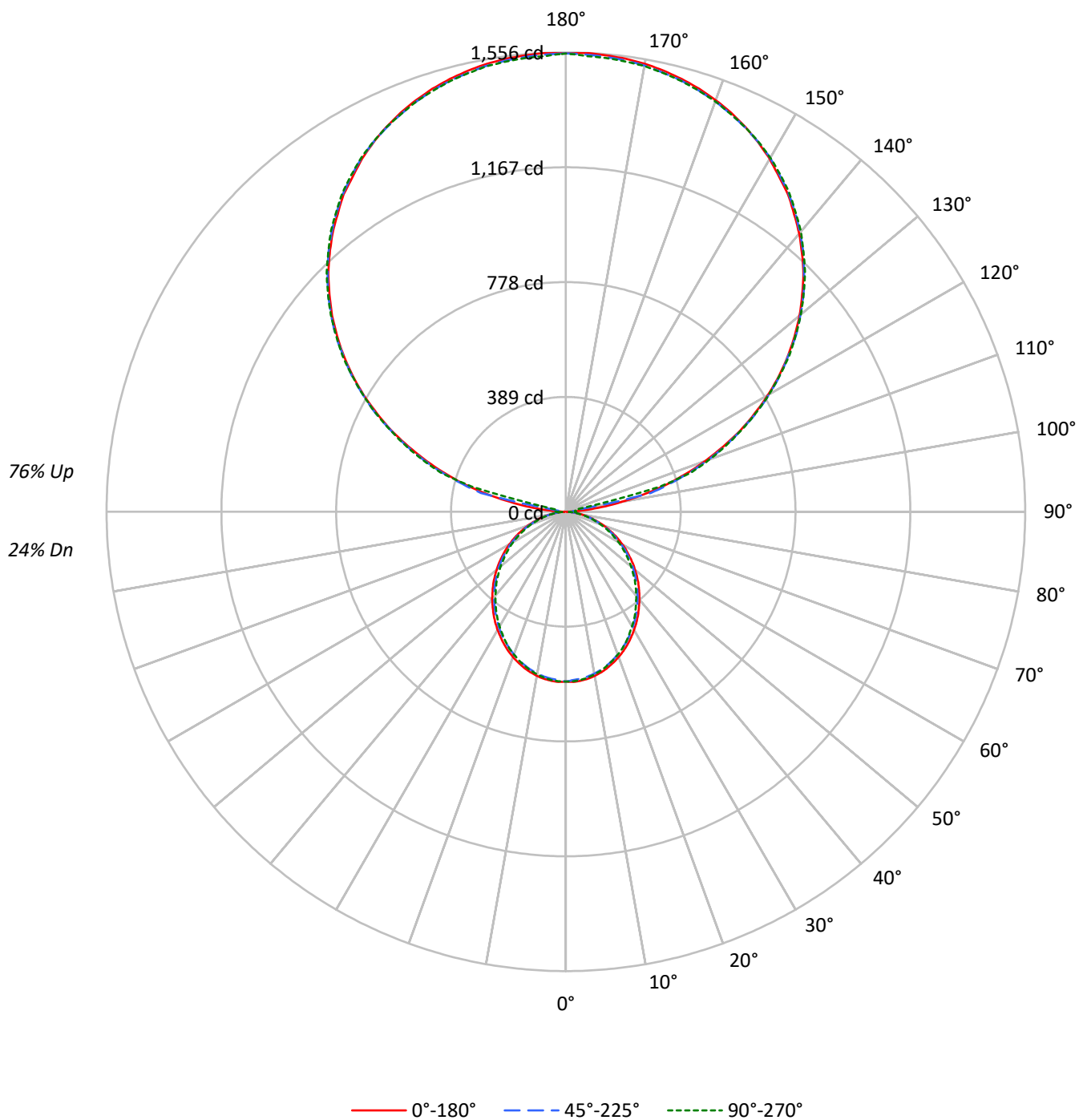
Lumens per Lamp: N/A
Luminaire Lumens: 6283.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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: P1025314

CATALOG NUMBER: S124DIP-B350D1205UB30-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1025314

CATALOG NUMBER: S124DIP-B350D1205UB30-4F0-XX-W2A-F

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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27
2	84	76	71	66	74	68	63	59	52	49	46	38	36	34	25	24	22
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19
4	70	59	52	46	62	53	47	42	41	36	33	30	27	25	19	18	16
5	64	53	45	39	56	47	40	35	37	32	28	27	24	21	18	16	14
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	13
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	13	11
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9
10	43	32	25	20	38	29	22	18	22	18	15	17	14	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4690	4690	4690
5°	4693	4555	4560
10°	4654	4428	4397
15°	4587	4278	4213
20°	4502	4115	4023
25°	4405	3944	3818
30°	4290	3758	3593
35°	4170	3567	3375
40°	4045	3363	3144
45°	3914	3157	2928
50°	3770	2959	2689
55°	3612	2726	2451
60°	3450	2471	2203
65°	3265	2209	1924
70°	3054	1892	1625
75°	2735	1525	1301
80°	2332	1103	916
85°	1812	615	493

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3914 cd/sqm

TEST NUMBER: P1025314

CATALOG NUMBER: S124DIP-B350D1205UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	0.9
10°-20°	152.7	2.4
20°-30°	224.7	3.6
30°-40°	261.2	4.2
40°-50°	261.2	4.2
50°-60°	228.5	3.6
60°-70°	169.6	2.7
70°-80°	96.2	1.5
80°-90°	30.8	0.5
90°-100°	51.5	0.8
100°-110°	339.4	5.4
110°-120°	648.0	10.3
120°-130°	822.7	13.1
130°-140°	880.1	14.0
140°-150°	823.0	13.1
150°-160°	663.6	10.6
160°-170°	428.0	6.8
170°-180°	147.5	2.3
0°-30°	431.6	6.9
0°-40°	692.9	11.0
0°-60°	1182.6	18.8
0°-90°	1479.2	23.5
90°-120°	1039.0	16.5
90°-150°	3564.7	56.7
90°-180°	4804.0	76.5
0°-180°	6283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	575	575	575	575	575	
5°	575	573	568	573	572	55
15°	547	545	538	541	540	154
25°	495	492	486	486	484	228
35°	426	423	416	413	411	267
45°	348	345	337	332	331	268
55°	263	262	255	250	247	236
65°	178	176	171	167	164	176
75°	95	93	90	88	88	101
85°	25	25	24	24	24	27
90°	4	16	26	32	35	5
95°	64	24	26	32	34	79
105°	350	356	362	373	331	366
115°	653	656	655	657	657	642
125°	917	922	920	923	924	819
135°	1138	1137	1141	1144	1146	877
145°	1312	1316	1316	1317	1319	820
155°	1439	1440	1436	1441	1438	663
165°	1518	1512	1512	1521	1511	429
175°	1552	1546	1547	1557	1543	148
180°	1552	1552	1552	1552	1552	

TEST NUMBER: P1025314

CATALOG NUMBER: S124DIP-B350D1205UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	575.1	575.1	575.1	575.1	575.1
2.5°	576.9	575.5	570.5	575.1	574.6
5°	574.6	572.8	567.7	572.8	571.8
7.5°	570.5	568.6	563.1	567.2	566.8
10°	564.5	562.6	556.6	560.3	559.4
12.5°	556.6	554.8	548.3	552.5	551.1
15°	547.0	545.1	538.2	541.0	539.6
17.5°	535.9	533.6	527.1	529.0	528.1
20°	523.5	521.1	514.2	515.6	514.7
22.5°	510.1	506.9	500.0	502.7	500.9
25°	495.3	492.1	485.7	486.1	484.3
27.5°	478.8	475.5	469.5	468.6	466.3
30°	462.2	458.5	452.5	450.6	448.3
32.5°	444.7	441.4	435.0	432.7	430.4
35°	426.2	423.0	416.5	413.3	411.0
37.5°	406.9	404.1	397.2	394.0	390.7
40°	388.0	384.3	377.4	372.8	370.5
42.5°	367.7	365.9	358.0	352.5	351.1
45°	347.9	344.7	337.3	332.2	330.8
47.5°	327.2	324.9	317.9	312.4	308.7
50°	306.0	304.1	297.7	291.2	288.5
52.5°	285.2	282.9	276.0	270.5	266.8
55°	263.1	261.7	255.3	249.7	247.0
57.5°	242.4	241.0	234.5	229.0	226.2
60°	220.7	218.4	212.4	208.3	206.0
62.5°	199.5	197.7	191.2	187.5	185.2
65°	178.3	176.0	171.4	166.8	164.5
67.5°	156.7	154.8	150.2	145.6	145.1
70°	136.9	133.6	129.9	126.3	124.9
72.5°	115.7	112.4	109.7	106.9	105.5
75°	94.9	92.6	90.3	88.5	88.0
77.5°	74.6	73.7	71.4	71.0	69.6
80°	56.7	55.3	54.4	53.5	53.0
82.5°	39.2	38.7	38.7	38.2	37.8
85°	24.9	24.9	24.0	24.0	23.5
87.5°	12.0	11.5	11.1	11.1	11.1
90°	3.5	16.3	25.5	32.5	34.8
92.5°	17.4	15.1	24.4	31.4	31.4
95°	63.9	24.4	25.5	32.5	33.7
97.5°	121.9	147.5	25.5	31.4	32.5
100°	190.4	211.3	51.1	31.4	32.5
102.5°	267.1	281.0	294.9	33.7	33.7
105°	349.5	356.5	362.3	372.7	330.9
107.5°	425.0	428.5	436.6	442.4	447.0
110°	501.6	505.1	512.1	514.4	517.9

TEST NUMBER: P1025314

CATALOG NUMBER: S124DIP-B350D1205UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	575.9	582.9	585.2	584.1	588.7
115°	652.6	656.0	654.9	657.2	657.2
117.5°	721.1	725.7	729.2	728.0	728.0
120°	790.7	795.4	794.2	796.5	794.2
122.5°	855.8	858.1	860.4	861.6	859.2
125°	917.3	921.9	919.6	923.1	924.3
127.5°	976.5	977.7	983.5	982.3	981.2
130°	1033.4	1034.6	1038.1	1039.2	1039.2
132.5°	1085.7	1088.0	1092.6	1093.8	1092.6
135°	1137.9	1136.8	1141.4	1143.7	1146.0
137.5°	1184.4	1184.4	1190.2	1192.5	1191.3
140°	1229.6	1232.0	1234.3	1237.8	1238.9
142.5°	1270.3	1274.9	1276.1	1278.4	1278.4
145°	1312.1	1315.6	1315.6	1316.7	1319.1
147.5°	1344.6	1351.6	1350.4	1351.6	1352.7
150°	1380.6	1385.2	1384.1	1384.1	1385.2
152.5°	1410.8	1414.3	1411.9	1414.3	1413.1
155°	1438.6	1439.8	1436.3	1441.0	1437.5
157.5°	1463.0	1463.0	1458.4	1464.2	1458.4
160°	1483.9	1480.4	1479.3	1486.3	1479.3
162.5°	1502.5	1497.9	1496.7	1503.7	1495.5
165°	1517.6	1511.8	1511.8	1521.1	1510.6
167.5°	1530.4	1524.6	1523.4	1533.9	1522.2
170°	1540.8	1533.9	1535.0	1544.3	1532.7
172.5°	1547.8	1540.8	1542.0	1551.3	1538.5
175°	1552.4	1545.5	1546.6	1557.1	1543.1
177.5°	1555.9	1547.8	1550.1	1559.4	1545.5
180°	1552.4	1552.4	1552.4	1552.4	1552.4

(END OF REPORT)