

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: P1025315

Luminaire Tested: S124DIP-B350D1205UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025315
REPORT IS A COMBINATION OF REPORTS P995810 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-F1
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

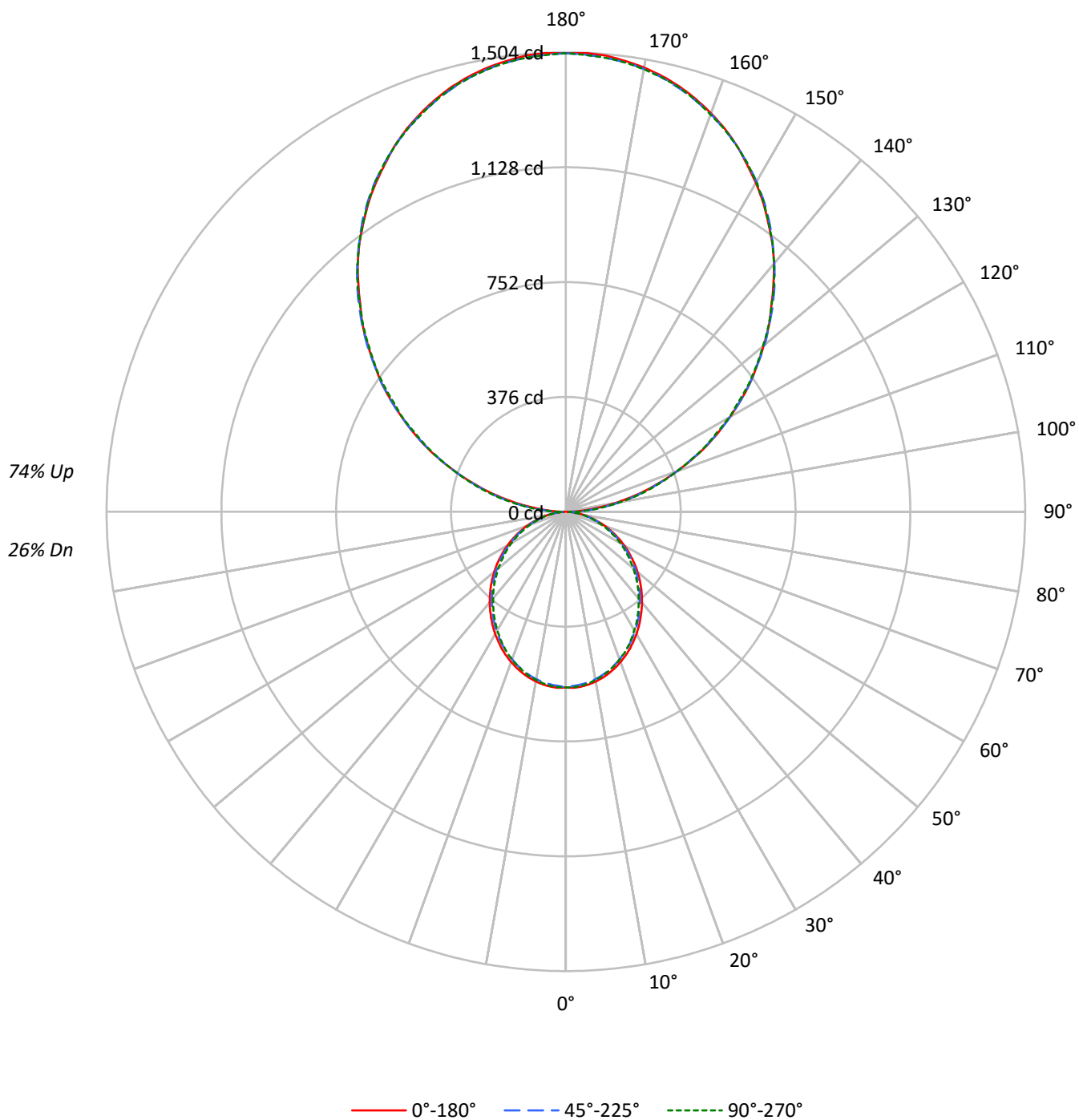
Lumens per Lamp: N/A
Luminaire Lumens: 5645.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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Luminous Intensity Polar Plot



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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	91	91	91	91	70	70	70	51	51	51	34	34	34
1	92	88	84	81	82	79	76	73	61	59	57	45	44	43	30	29	29
2	84	77	71	66	75	69	64	60	54	50	47	40	37	36	27	25	24
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	24	22	21
4	70	60	52	46	62	54	47	42	42	37	34	31	28	26	21	19	18
5	64	53	45	39	57	48	41	36	37	33	29	28	25	22	19	17	15
6	59	47	40	34	52	43	36	31	34	29	25	25	22	19	17	15	14
7	54	43	35	30	48	38	32	27	30	25	22	23	19	17	16	14	12
8	50	39	31	26	45	35	28	24	27	23	19	21	17	15	14	12	11
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10
10	44	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	9

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	1.0
10°-20°	152.7	2.7
20°-30°	224.7	4.0
30°-40°	261.2	4.6
40°-50°	261.2	4.6
50°-60°	228.5	4.0
60°-70°	169.6	3.0
70°-80°	96.2	1.7
80°-90°	30.8	0.5
90°-100°	97.9	1.7
100°-110°	293.1	5.2
110°-120°	498.0	8.8
120°-130°	656.7	11.6
130°-140°	737.6	13.1
140°-150°	725.0	12.8
150°-160°	609.8	10.8
160°-170°	405.7	7.2
170°-180°	142.1	2.5
0°-30°	431.6	7.6
0°-40°	692.9	12.3
0°-60°	1182.6	20.9
0°-90°	1479.2	26.2
90°-120°	889.0	15.7
90°-150°	3008.3	53.3
90°-180°	4166.0	73.8
0°-180°	5645.0	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	7
95°	70	80	88	92	92	75
105°	271	272	276	280	283	287
115°	506	506	504	503	502	499
125°	737	737	736	734	732	657
135°	951	958	958	956	952	736
145°	1155	1160	1161	1160	1156	723
155°	1324	1324	1323	1327	1323	609
165°	1441	1438	1435	1442	1438	406
175°	1499	1493	1492	1500	1492	142
180°	1501	1501	1501	1501	1501	

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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°	30.2	45.3	51.1	54.6	55.7
95°	69.7	80.1	88.2	91.7	91.7
97.5°	111.5	120.8	130.1	134.7	134.7
100°	162.6	167.2	177.7	180.0	180.0
102.5°	216.0	217.1	226.4	229.9	231.1
105°	270.6	271.7	276.4	279.8	283.3
107.5°	327.4	328.6	329.8	334.4	333.3
110°	385.5	387.8	386.7	384.3	387.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	445.9	445.9	443.6	443.6	443.6
115°	506.3	506.3	503.9	502.8	501.6
117.5°	563.2	563.2	562.0	558.5	555.0
120°	620.1	624.7	621.2	615.4	617.7
122.5°	679.3	680.4	679.3	675.8	670.0
125°	737.3	737.3	736.2	733.9	731.5
127.5°	789.6	793.1	790.8	788.4	787.3
130°	845.3	848.8	848.8	846.5	841.8
132.5°	902.2	904.5	903.4	901.1	899.9
135°	951.0	958.0	958.0	955.6	952.2
137.5°	1005.6	1009.1	1011.4	1007.9	1009.1
140°	1060.1	1062.5	1062.5	1061.3	1060.1
142.5°	1110.1	1112.4	1111.2	1111.2	1111.2
145°	1155.4	1160.0	1161.2	1160.0	1156.5
147.5°	1201.8	1207.6	1206.4	1205.3	1204.1
150°	1243.6	1248.3	1248.3	1248.3	1247.1
152.5°	1283.1	1285.4	1286.6	1290.1	1286.6
155°	1323.7	1323.7	1322.6	1327.2	1322.6
157.5°	1358.6	1356.2	1356.2	1359.7	1356.2
160°	1388.8	1387.6	1386.4	1389.9	1384.1
162.5°	1416.6	1413.1	1412.0	1418.9	1413.1
165°	1441.0	1437.5	1435.2	1442.2	1437.5
167.5°	1460.7	1456.1	1456.1	1463.1	1456.1
170°	1477.0	1471.2	1472.4	1479.3	1471.2
172.5°	1488.6	1484.0	1484.0	1492.1	1484.0
175°	1499.1	1493.3	1492.1	1500.2	1492.1
177.5°	1503.7	1497.9	1497.9	1506.0	1496.7
180°	1501.4	1501.4	1501.4	1501.4	1501.4

(END OF REPORT)