

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: P1025563

Luminaire Tested: S124DIP-B575D1205UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025563
REPORT IS A COMBINATION OF REPORTS P996133 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1205UB50-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

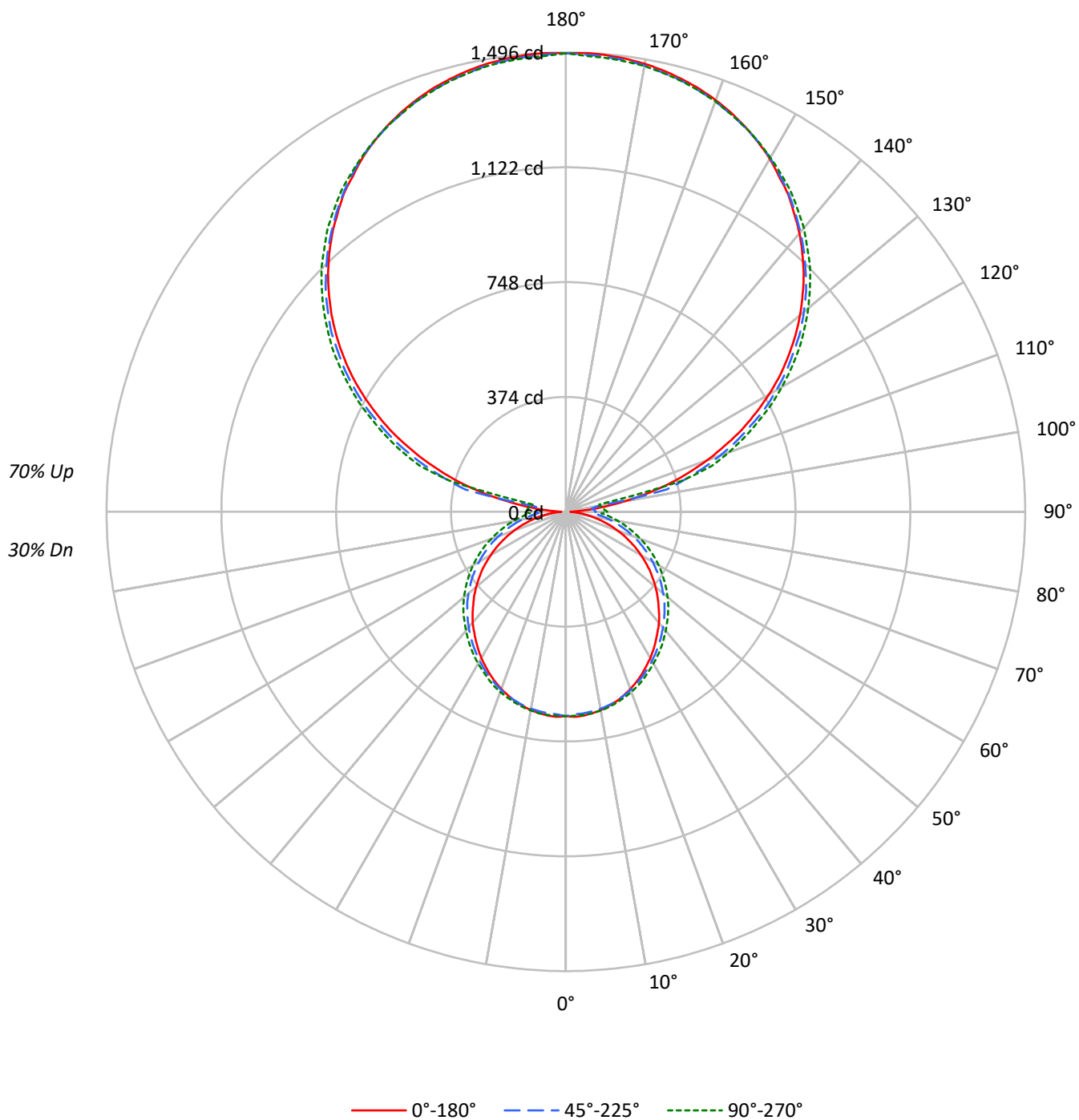
Lumens per Lamp: N/A
Luminaire Lumens: 6891.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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: P1025563

CATALOG NUMBER: S124DIP-B575D1205UB50-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1025563

CATALOG NUMBER: S124DIP-B575D1205UB50-4F0-XX-W2A-D

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	102	102	102	102	92	92	92	92	72	72	72	55	55	55	38	38	38
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	33	32	31
2	84	77	71	65	75	69	64	59	54	51	47	41	38	36	28	27	26
3	77	67	60	54	68	60	54	49	48	43	40	36	33	30	25	23	21
4	70	59	51	45	62	53	47	41	42	37	33	32	28	26	22	20	18
5	64	52	44	39	57	47	40	35	37	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	19	17	16	14	12
8	50	38	30	25	45	34	28	23	28	23	19	21	17	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°	5427	5427	5427
5°	5442	5285	5295
10°	5406	5182	5167
15°	5356	5065	5022
20°	5281	4938	4881
25°	5197	4798	4729
30°	5105	4660	4575
35°	5001	4518	4437
40°	4918	4383	4294
45°	4796	4255	4168
50°	4691	4111	4036
55°	4583	3972	3883
60°	4416	3798	3738
65°	4230	3611	3565
70°	4007	3397	3364
75°	3694	3160	3173
80°	3340	2916	2975
85°	2874	2673	2811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 4958 cd/sqm

TEST NUMBER: P1025563

CATALOG NUMBER: S124DIP-B575D1205UB50-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	0.9
10°-20°	180.7	2.6
20°-30°	273.2	4.0
30°-40°	330.5	4.8
40°-50°	349.4	5.1
50°-60°	328.8	4.8
60°-70°	272.9	4.0
70°-80°	191.5	2.8
80°-90°	111.0	1.6
90°-100°	113.8	1.7
100°-110°	373.9	5.4
110°-120°	655.1	9.5
120°-130°	809.0	11.7
130°-140°	854.0	12.4
140°-150°	792.8	11.5
150°-160°	638.1	9.3
160°-170°	411.5	6.0
170°-180°	141.8	2.1
0°-30°	516.9	7.5
0°-40°	847.4	12.3
0°-60°	1525.6	22.1
0°-90°	2101.0	30.5
90°-120°	1142.8	16.6
90°-150°	3598.6	52.2
90°-180°	4790.0	69.5
0°-180°	6891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	666	664	659	665	664	63
15°	639	639	637	644	643	180
25°	584	589	591	599	600	269
35°	511	520	528	538	540	320
45°	426	440	455	467	471	329
55°	334	350	372	387	391	298
65°	231	255	280	299	305	229
75°	128	156	187	208	215	136
85°	40	71	104	127	134	41
90°	15	57	98	127	135	11
95°	71	58	89	116	124	83
105°	343	364	398	426	392	359
115°	632	642	665	683	688	622
125°	885	889	905	923	928	791
135°	1096	1094	1104	1118	1125	844
145°	1262	1265	1265	1271	1276	789
155°	1383	1384	1381	1386	1382	638
165°	1459	1454	1454	1462	1452	412
175°	1493	1486	1487	1497	1484	142
180°	1493	1493	1493	1493	1493	

TEST NUMBER: P1025563

CATALOG NUMBER: S124DIP-B575D1205UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	665.5	665.5	665.5	665.5	665.5
2.5°	668.5	666.3	660.3	665.5	664.8
5°	666.3	664.0	658.8	664.8	664.0
7.5°	661.8	660.3	655.8	662.5	661.8
10°	655.8	655.1	651.4	658.1	657.3
12.5°	647.6	647.6	645.4	651.4	651.4
15°	638.7	639.4	637.2	643.9	643.2
17.5°	626.8	629.0	628.2	635.0	634.2
20°	614.1	616.3	617.1	624.5	624.5
22.5°	599.9	602.9	604.4	611.9	613.3
25°	584.3	588.7	591.0	599.2	599.9
27.5°	567.1	573.8	576.8	584.3	585.0
30°	550.0	556.0	561.2	569.4	570.9
32.5°	531.4	538.8	544.8	554.5	556.0
35°	511.2	520.2	527.6	538.1	540.3
37.5°	491.1	501.6	510.5	520.9	523.2
40°	471.7	481.4	491.9	503.0	506.0
42.5°	449.4	460.6	473.2	485.9	488.1
45°	426.3	440.4	454.6	467.3	471.0
47.5°	404.7	418.8	435.2	447.9	452.4
50°	380.8	397.2	413.6	428.5	433.0
52.5°	357.0	373.4	392.7	407.7	412.1
55°	333.9	349.5	371.9	386.8	391.3
57.5°	307.8	327.2	348.8	366.7	370.4
60°	282.5	301.8	326.4	343.6	349.5
62.5°	257.9	279.5	304.1	321.2	327.2
65°	231.0	254.9	280.2	298.8	304.8
67.5°	205.7	231.0	257.9	276.5	282.5
70°	179.6	204.9	233.3	253.4	258.6
72.5°	154.3	180.4	210.9	230.3	236.2
75°	128.2	155.8	187.1	207.9	214.6
77.5°	103.6	132.7	165.4	186.3	193.8
80°	81.2	111.0	143.8	166.2	172.2
82.5°	58.9	90.2	123.0	146.1	152.8
85°	39.5	70.8	104.3	126.7	134.1
87.5°	24.6	55.1	87.9	109.6	116.3
90°	15.2	57.3	98.4	126.7	134.9
92.5°	27.9	51.8	92.7	120.3	126.2
95°	71.1	57.7	89.4	116.3	124.1
97.5°	126.1	172.4	85.7	110.6	118.5
100°	191.3	230.8	105.7	106.9	113.3
102.5°	265.0	294.8	336.5	104.7	110.7
105°	342.8	364.3	397.5	426.2	392.0
107.5°	415.3	431.4	465.3	489.5	499.1
110°	488.3	502.1	534.9	554.2	563.5

TEST NUMBER: P1025563

CATALOG NUMBER: S124DIP-B575D1205UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	559.0	574.7	601.5	616.7	627.1
115°	631.9	642.0	664.7	683.3	688.5
117.5°	697.8	706.7	732.4	747.0	752.9
120°	764.0	770.8	791.3	808.4	812.1
122.5°	826.5	828.8	851.1	867.2	870.2
125°	885.0	888.7	905.1	922.6	928.2
127.5°	941.9	942.3	962.7	975.1	979.2
130°	995.8	996.3	1011.5	1026.0	1030.5
132.5°	1046.1	1047.6	1061.0	1074.8	1078.2
135°	1095.6	1094.5	1104.2	1118.3	1125.0
137.5°	1140.3	1139.5	1148.1	1161.5	1164.1
140°	1183.8	1185.3	1188.3	1201.3	1206.2
142.5°	1222.1	1226.6	1227.0	1237.4	1240.4
145°	1262.3	1264.9	1264.9	1270.6	1275.8
147.5°	1293.5	1299.5	1298.4	1300.2	1304.4
150°	1328.2	1331.9	1330.8	1330.8	1331.9
152.5°	1356.5	1359.8	1357.6	1359.8	1358.7
155°	1383.3	1384.4	1381.0	1385.5	1382.2
157.5°	1406.7	1406.7	1402.3	1407.8	1402.3
160°	1426.8	1423.5	1422.4	1429.1	1422.4
162.5°	1444.7	1440.2	1439.1	1445.8	1438.0
165°	1459.2	1453.6	1453.6	1462.5	1452.5
167.5°	1471.5	1465.9	1464.8	1474.8	1463.7
170°	1481.5	1474.8	1475.9	1484.9	1473.7
172.5°	1488.2	1481.5	1482.6	1491.6	1479.3
175°	1492.7	1486.0	1487.1	1497.2	1483.8
177.5°	1496.0	1488.2	1490.5	1499.4	1486.0
180°	1492.7	1492.7	1492.7	1492.7	1492.7

(END OF REPORT)