

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: P1025311

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025311
REPORT IS A COMBINATION OF REPORTS P995806 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-D
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

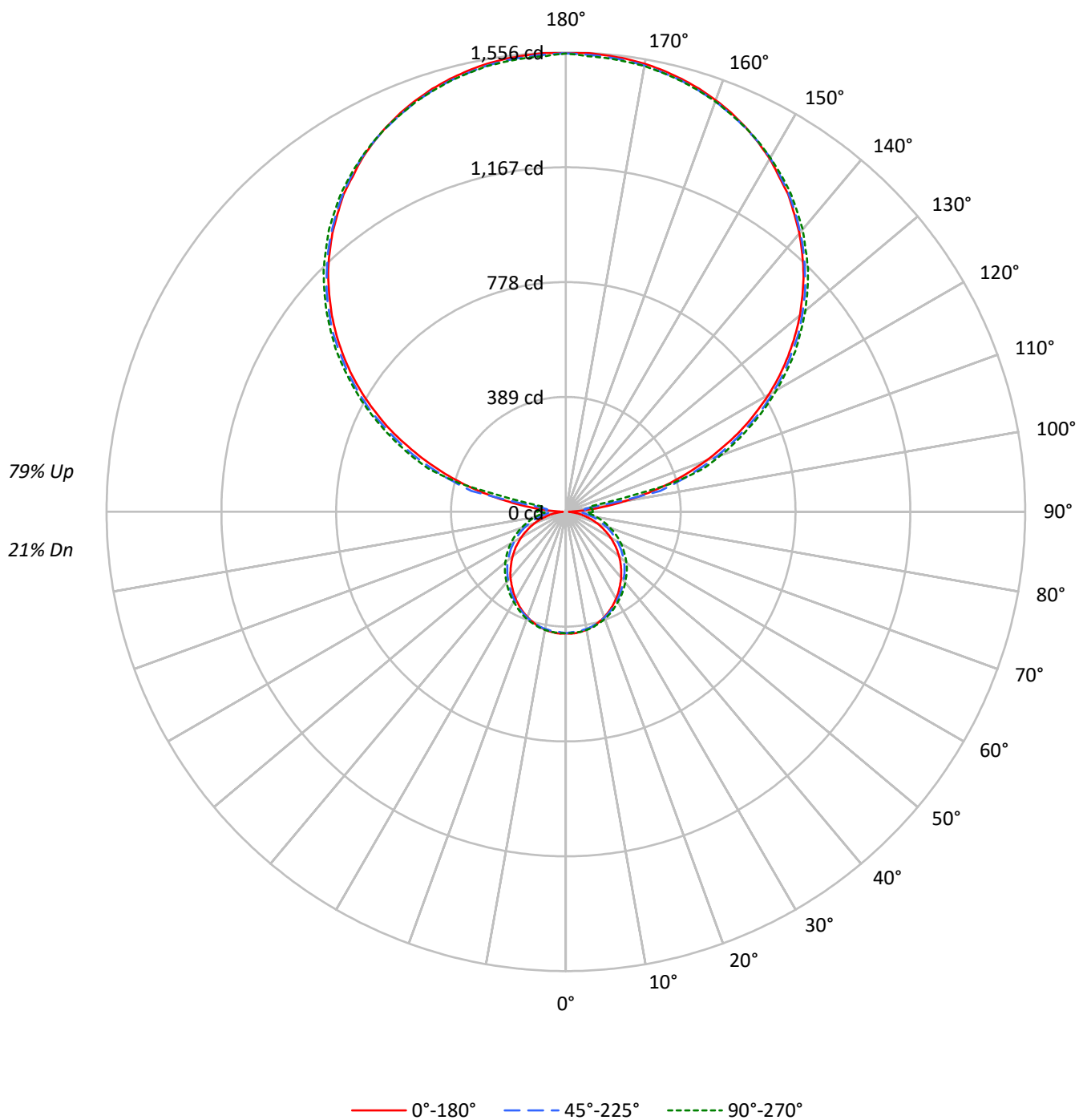
Lumens per Lamp: N/A
Luminaire Lumens: 6210.1 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	100	100	100	100	89	89	89	89	67	67	67	48	48	48	29	29	29
1	91	87	83	79	80	77	73	70	58	56	54	41	40	38	25	25	24
2	82	75	69	64	73	67	62	57	51	47	44	36	34	32	22	21	20
3	75	66	59	53	66	58	52	48	44	40	37	31	29	27	19	18	17
4	68	58	50	45	60	52	45	40	39	35	31	28	25	23	17	15	14
5	63	51	44	38	55	46	39	34	35	30	27	25	22	19	15	14	12
6	58	46	38	33	51	41	34	29	31	26	23	22	19	17	14	12	11
7	53	41	34	28	47	37	30	25	28	23	20	20	17	15	13	11	9
8	49	37	30	25	43	33	27	22	25	21	18	18	15	13	11	10	8
9	45	34	27	22	40	30	24	20	23	19	16	17	14	11	11	9	7
10	42	31	24	19	37	28	21	17	21	17	14	15	12	10	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3356	3356	3356
5°	3365	3268	3274
10°	3343	3204	3194
15°	3312	3132	3105
20°	3265	3054	3018
25°	3213	2967	2925
30°	3157	2881	2829
35°	3093	2794	2744
40°	3041	2710	2656
45°	2966	2631	2577
50°	2901	2542	2495
55°	2833	2455	2400
60°	2729	2348	2311
65°	2617	2233	2205
70°	2479	2100	2080
75°	2285	1954	1962
80°	2065	1803	1838
85°	1776	1653	1738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 3555 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	0.6
10°-20°	111.7	1.8
20°-30°	168.9	2.7
30°-40°	204.4	3.3
40°-50°	216.0	3.5
50°-60°	203.3	3.3
60°-70°	168.7	2.7
70°-80°	118.4	1.9
80°-90°	69.9	1.1
90°-100°	91.3	1.5
100°-110°	368.8	5.9
110°-120°	667.8	10.8
120°-130°	833.8	13.4
130°-140°	884.9	14.2
140°-150°	823.9	13.3
150°-160°	663.6	10.7
160°-170°	428.0	6.9
170°-180°	147.5	2.4
0°-30°	319.6	5.1
0°-40°	524.0	8.4
0°-60°	943.3	15.2
0°-90°	1300.4	20.9
90°-120°	1127.9	18.2
90°-150°	3670.5	59.1
90°-180°	4910.0	79.1
0°-180°	6210.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	412	411	407	411	411	39
15°	395	395	394	398	398	111
25°	361	364	365	370	371	166
35°	316	322	326	333	334	198
45°	264	272	281	289	291	204
55°	206	216	230	239	242	184
65°	143	158	173	185	188	142
75°	79	96	116	129	133	84
85°	24	44	64	78	83	25
90°	11	42	71	92	98	8
95°	70	46	66	85	90	84
105°	354	370	393	415	376	370
115°	655	663	677	689	692	645
125°	919	923	932	945	949	821
135°	1139	1138	1146	1155	1160	878
145°	1313	1316	1316	1320	1324	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	411.5	411.5	411.5	411.5	411.5
2.5°	413.4	412.0	408.3	411.5	411.0
5°	412.0	410.6	407.4	411.0	410.6
7.5°	409.2	408.3	405.5	409.7	409.2
10°	405.5	405.1	402.8	406.9	406.4
12.5°	400.4	400.4	399.1	402.8	402.8
15°	394.9	395.4	394.0	398.1	397.7
17.5°	387.5	388.9	388.5	392.6	392.2
20°	379.7	381.1	381.6	386.2	386.2
22.5°	371.0	372.8	373.7	378.3	379.3
25°	361.3	364.0	365.4	370.5	371.0
27.5°	350.7	354.8	356.7	361.3	361.7
30°	340.1	343.8	347.0	352.1	353.0
32.5°	328.6	333.2	336.9	342.8	343.8
35°	316.1	321.6	326.3	332.7	334.1
37.5°	303.7	310.1	315.7	322.1	323.5
40°	291.7	297.7	304.1	311.1	312.9
42.5°	277.9	284.8	292.6	300.5	301.8
45°	263.6	272.3	281.1	288.9	291.2
47.5°	250.2	259.0	269.1	277.0	279.7
50°	235.5	245.6	255.8	265.0	267.7
52.5°	220.7	230.9	242.8	252.1	254.8
55°	206.4	216.1	229.9	239.2	241.9
57.5°	190.3	202.3	215.7	226.7	229.0
60°	174.6	186.6	201.8	212.4	216.1
62.5°	159.4	172.8	188.0	198.6	202.3
65°	142.9	157.6	173.3	184.8	188.5
67.5°	127.2	142.9	159.4	171.0	174.6
70°	111.1	126.7	144.2	156.7	159.9
72.5°	95.4	111.5	130.4	142.4	146.1
75°	79.3	96.3	115.7	128.6	132.7
77.5°	64.1	82.0	102.3	115.2	119.8
80°	50.2	68.7	88.9	102.8	106.4
82.5°	36.4	55.8	76.0	90.3	94.5
85°	24.4	43.8	64.5	78.3	82.9
87.5°	15.2	34.1	54.4	67.7	71.9
90°	10.9	42.1	71.1	91.5	97.5
92.5°	24.3	38.1	67.3	87.2	90.8
95°	69.9	45.6	65.6	85.0	90.4
97.5°	127.4	166.4	63.3	81.2	86.4
100°	195.5	228.4	86.1	78.9	83.2
102.5°	272.2	296.2	327.6	78.4	82.1
105°	353.6	369.9	392.7	414.6	376.5
107.5°	429.1	440.5	464.7	482.0	489.9
110°	505.3	515.2	538.4	551.3	558.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	579.1	591.7	609.2	618.2	626.5
115°	655.4	662.9	676.6	689.0	692.2
117.5°	723.9	731.2	748.6	757.0	760.7
120°	793.0	799.1	811.3	822.8	824.2
122.5°	858.1	860.4	875.1	885.6	886.4
125°	919.1	923.3	932.5	944.8	948.7
127.5°	978.3	979.1	994.1	1001.2	1003.3
130°	1034.8	1035.5	1046.4	1055.8	1058.6
132.5°	1087.1	1088.9	1099.1	1108.1	1109.7
135°	1138.8	1137.7	1145.5	1155.2	1160.3
137.5°	1185.3	1184.9	1192.5	1201.7	1202.8
140°	1230.5	1232.5	1235.2	1244.7	1248.1
142.5°	1270.8	1275.4	1276.1	1283.5	1285.3
145°	1312.6	1315.6	1315.6	1319.5	1323.7
147.5°	1345.1	1351.6	1350.4	1352.1	1355.0
150°	1381.1	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)