

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: P1025320

Luminaire Tested: S124DIP-B350D1205UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025320
REPORT IS A COMBINATION OF REPORTS P995815 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D1205UB35-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

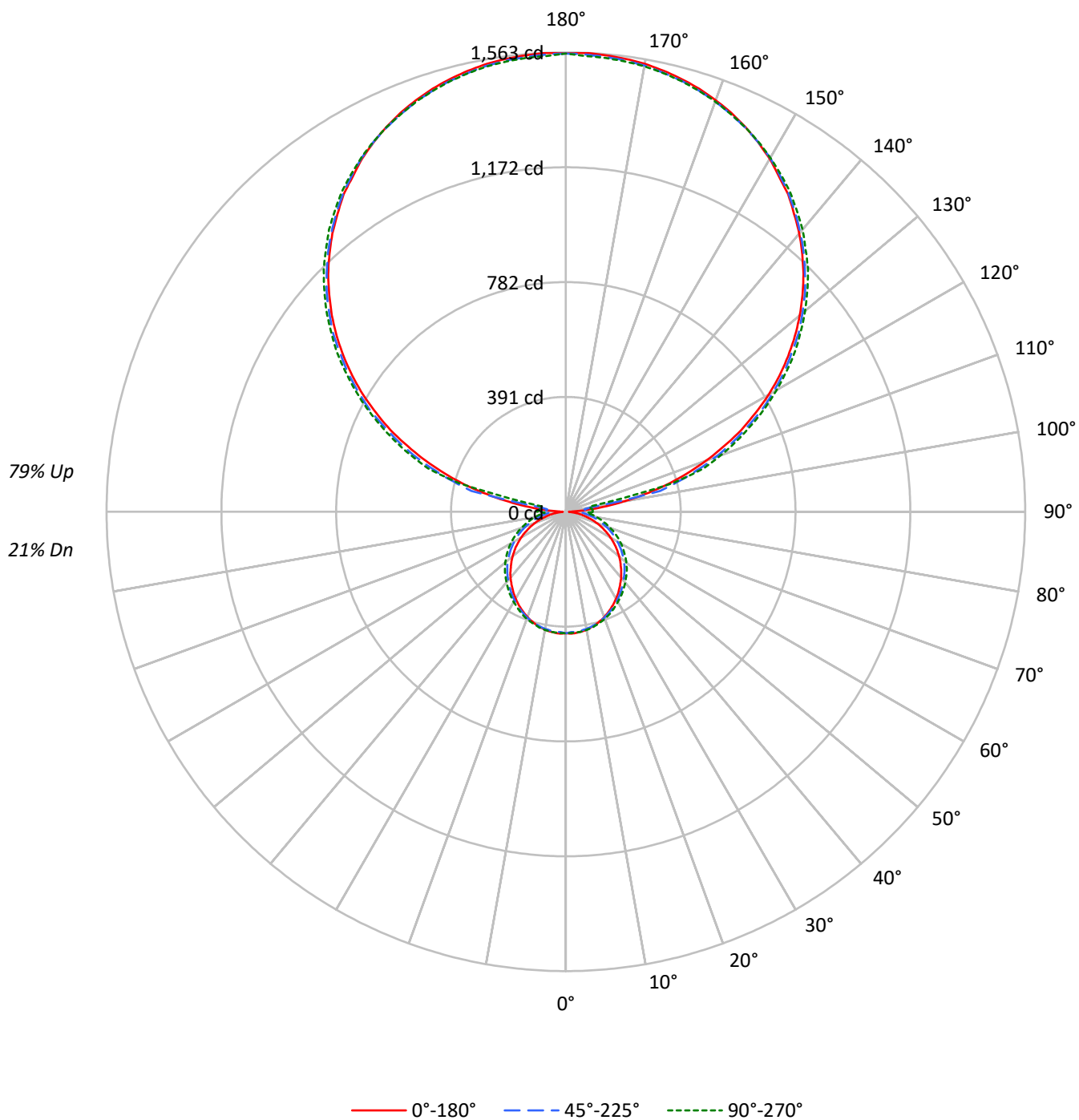
Lumens per Lamp: N/A
Luminaire Lumens: 6237.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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°	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: 90°

Luminance: 3555 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.6
10°-20°	112.2	1.8
20°-30°	169.6	2.7
30°-40°	205.2	3.3
40°-50°	217.0	3.5
50°-60°	204.2	3.3
60°-70°	169.4	2.7
70°-80°	118.9	1.9
80°-90°	70.3	1.1
90°-100°	91.7	1.5
100°-110°	370.4	5.9
110°-120°	670.7	10.8
120°-130°	837.4	13.4
130°-140°	888.8	14.2
140°-150°	827.5	13.3
150°-160°	666.5	10.7
160°-170°	429.9	6.9
170°-180°	148.2	2.4
0°-30°	321.0	5.1
0°-40°	526.2	8.4
0°-60°	947.4	15.2
0°-90°	1306.0	20.9
90°-120°	1132.8	18.2
90°-150°	3686.5	59.1
90°-180°	4931.0	79.1
0°-180°	6237.0	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°	11	42	72	92	98	8
95°	70	46	66	86	91	84
105°	355	371	394	416	378	372
115°	658	666	680	692	695	648
125°	923	927	937	949	953	825
135°	1144	1143	1151	1160	1165	881
145°	1318	1321	1321	1325	1329	824
155°	1445	1446	1443	1447	1444	666
165°	1524	1518	1518	1528	1517	431
175°	1559	1552	1553	1564	1550	148
180°	1559	1559	1559	1559	1559	

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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°	10.9	42.2	71.5	91.9	97.9
92.5°	24.4	38.3	67.5	87.5	91.2
95°	70.1	45.8	66.0	85.5	90.7
97.5°	128.1	167.1	63.6	81.5	86.8
100°	196.4	229.3	86.5	79.2	83.6
102.5°	273.3	297.5	329.1	78.7	82.4
105°	355.2	371.4	394.4	416.5	378.2
107.5°	431.0	442.3	466.7	484.1	492.0
110°	507.5	517.5	540.7	553.6	560.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	581.6	594.2	611.9	620.8	629.2
115°	658.2	665.8	679.5	692.0	695.3
117.5°	727.0	734.5	751.8	760.4	764.1
120°	796.5	802.6	814.8	826.4	827.8
122.5°	861.8	864.1	879.0	889.4	890.3
125°	923.2	927.4	936.6	948.9	952.8
127.5°	982.7	983.3	998.4	1005.6	1007.6
130°	1039.3	1040.0	1050.9	1060.5	1063.2
132.5°	1091.8	1093.6	1103.9	1112.9	1114.5
135°	1143.8	1142.6	1150.6	1160.3	1165.3
137.5°	1190.4	1190.0	1197.7	1207.0	1208.1
140°	1235.9	1237.8	1240.6	1250.1	1253.6
142.5°	1276.3	1281.0	1281.7	1289.1	1290.9
145°	1318.3	1321.3	1321.3	1325.3	1329.4
147.5°	1351.0	1357.5	1356.3	1358.0	1360.9
150°	1387.1	1391.3	1390.1	1390.1	1391.3
152.5°	1416.9	1420.4	1418.1	1420.4	1419.3
155°	1444.9	1446.1	1442.6	1447.3	1443.8
157.5°	1469.4	1469.4	1464.8	1470.6	1464.8
160°	1490.4	1486.9	1485.7	1492.7	1485.7
162.5°	1509.1	1504.4	1503.2	1510.2	1502.1
165°	1524.2	1518.4	1518.4	1527.7	1517.2
167.5°	1537.1	1531.2	1530.1	1540.6	1528.9
170°	1547.6	1540.6	1541.7	1551.1	1539.4
172.5°	1554.6	1547.6	1548.7	1558.1	1545.2
175°	1559.2	1552.2	1553.4	1563.9	1549.9
177.5°	1562.7	1554.6	1556.9	1566.2	1552.2
180°	1559.2	1559.2	1559.2	1559.2	1559.2

(END OF REPORT)