

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: P1013364

Luminaire Tested: S124RDIP-B575D1205UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013364
REPORT IS A COMBINATION OF REPORTS P999471 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D1205UB2750-4F0-XX-W2A-F_3000K
Description: Define 4 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

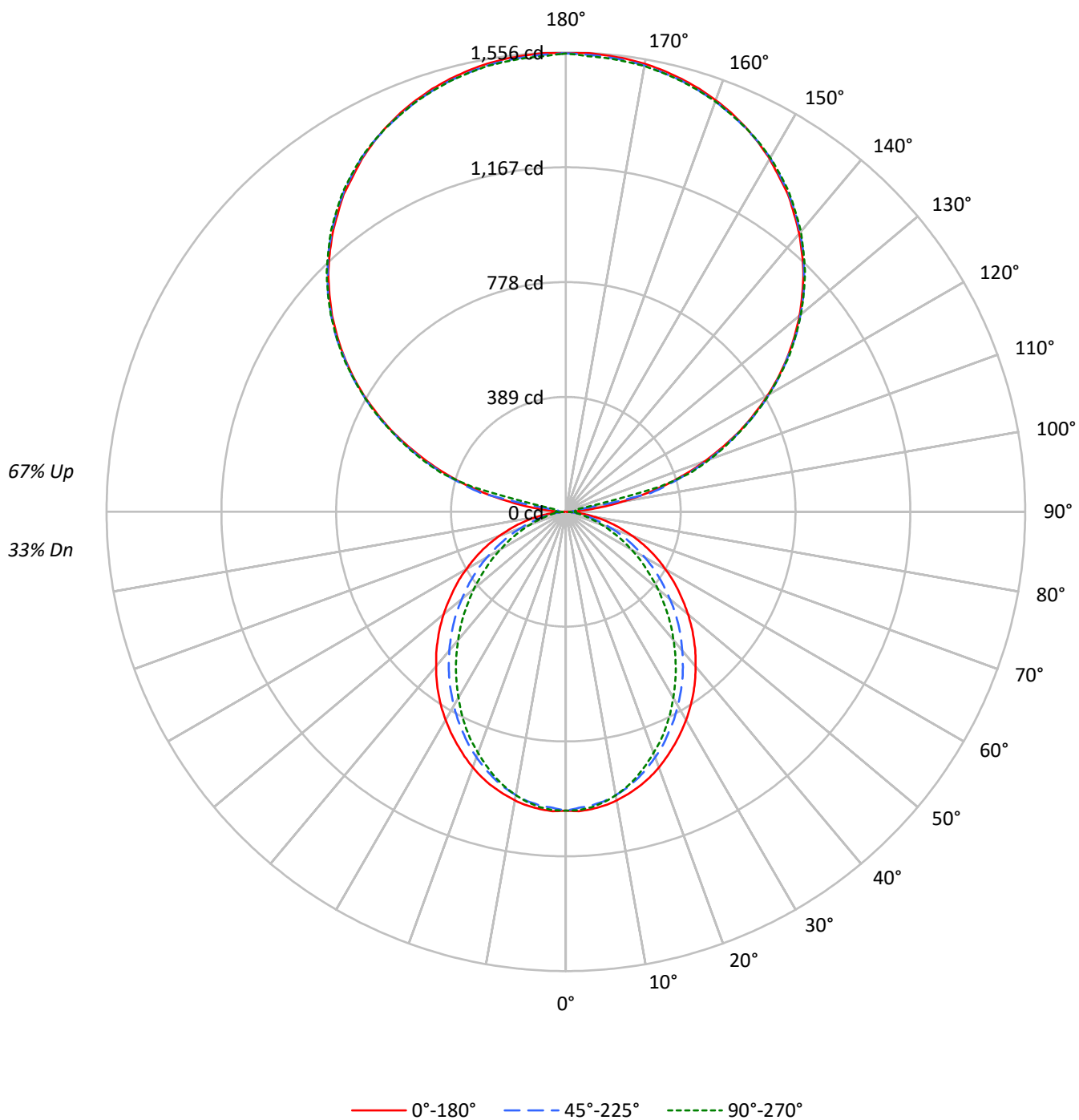
Lumens per Lamp: N/A
Luminaire Lumens: 7146.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
Input Voltage (V):
Input Current (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
RCR																	
0	103	103	103	103	93	93	93	93	74	74	74		56	56	56		40
1	94	90	86	83	85	81	78	75	65	63	61		50	48	47		36
2	86	79	73	68	77	71	66	62	57	54	51		44	42	40		32
3	78	69	62	57	70	63	57	52	50	46	43		39	36	34		28
4	72	61	54	48	64	56	49	44	45	40	36		35	31	29		25
5	66	55	47	41	59	50	43	38	40	35	31		31	28	25		23
6	61	49	41	36	54	44	38	33	36	31	27		28	25	22		21
7	56	44	36	31	50	40	33	29	33	28	24		26	22	19		19
8	52	40	32	27	47	36	30	25	30	25	21		23	20	17		17
9	48	36	29	24	43	33	27	23	27	22	19		21	18	15		16
10	45	33	26	22	41	30	24	20	25	20	17		20	16	14		15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8255	8255	8255
5°	8255	8009	8010
10°	8185	7757	7665
15°	8073	7442	7257
20°	7925	7084	6791
25°	7741	6696	6337
30°	7561	6301	5826
35°	7363	5901	5328
40°	7127	5470	4815
45°	6907	5043	4308
50°	6655	4576	3792
55°	6384	4098	3261
60°	6082	3589	2736
65°	5791	3006	2230
70°	5379	2393	1704
75°	4847	1741	1192
80°	4047	1069	857
85°	3049	615	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6907 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	1.3
10°-20°	265.4	3.7
20°-30°	383.2	5.4
30°-40°	434.3	6.1
40°-50°	419.3	5.9
50°-60°	348.6	4.9
60°-70°	240.6	3.4
70°-80°	121.6	1.7
80°-90°	34.1	0.5
90°-100°	51.5	0.7
100°-110°	339.4	4.7
110°-120°	648.0	9.1
120°-130°	822.7	11.5
130°-140°	880.1	12.3
140°-150°	823.0	11.5
150°-160°	663.6	9.3
160°-170°	428.0	6.0
170°-180°	147.5	2.1
0°-30°	743.8	10.4
0°-40°	1178.0	16.5
0°-60°	1945.9	27.2
0°-90°	2342.2	32.8
90°-120°	1039.0	14.5
90°-150°	3564.7	49.9
90°-180°	4804.0	67.2
0°-180°	7146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1011	1008	998	1006	1004	96
15°	963	956	936	935	929	271
25°	870	856	825	812	804	401
35°	753	728	689	663	649	470
45°	614	585	539	501	487	473
55°	465	434	384	343	329	416
65°	316	283	233	200	191	312
75°	168	140	103	85	81	177
85°	42	26	24	22	22	46
90°	4	16	26	32	35	6
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1012.3	1012.3	1012.3	1012.3	1012.3
2.5°	1015.4	1012.3	1003.8	1012.3	1011.5
5°	1010.7	1007.6	998.3	1006.1	1004.5
7.5°	1003.8	1000.7	989.0	994.5	992.1
10°	992.9	989.0	975.1	978.2	975.1
12.5°	979.0	974.3	957.3	958.8	954.2
15°	962.7	955.7	936.3	934.8	929.4
17.5°	944.1	934.0	911.5	907.6	899.9
20°	921.6	911.5	885.2	879.0	868.9
22.5°	896.8	885.2	856.5	846.4	838.7
25°	870.4	856.5	824.7	811.5	803.8
27.5°	843.3	826.3	792.9	777.4	766.6
30°	814.6	795.3	758.8	739.5	727.0
32.5°	784.4	761.9	723.9	700.7	689.1
35°	752.6	727.8	689.1	662.7	648.8
37.5°	719.3	693.7	651.1	622.4	608.5
40°	683.6	658.1	613.9	581.3	567.4
42.5°	649.5	622.4	575.9	542.6	527.8
45°	613.9	585.2	538.7	500.7	486.8
47.5°	577.5	548.0	499.9	460.4	444.9
50°	540.2	510.0	460.4	421.7	406.9
52.5°	502.3	472.8	421.7	382.1	366.6
55°	465.1	434.1	383.7	343.4	328.6
57.5°	428.6	396.1	346.5	305.4	294.5
60°	389.1	358.1	308.5	268.2	255.8
62.5°	353.4	320.9	269.7	233.3	224.0
65°	316.2	282.9	233.3	200.0	190.7
67.5°	277.5	245.7	199.2	169.7	158.9
70°	241.1	208.5	164.3	138.7	131.0
72.5°	202.3	173.6	132.5	111.6	104.6
75°	168.2	139.5	103.1	85.3	80.6
77.5°	132.5	107.7	76.7	64.3	62.8
80°	98.4	76.0	52.7	50.4	49.6
82.5°	69.0	48.8	38.0	36.4	35.7
85°	41.9	26.4	24.0	22.5	22.5
87.5°	17.8	11.6	10.9	10.1	10.9
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

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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)