

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: P1026413

Luminaire Tested: S124RDIP-B575D1205UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026413
REPORT IS A COMBINATION OF REPORTS P999463 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D1205UB27-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

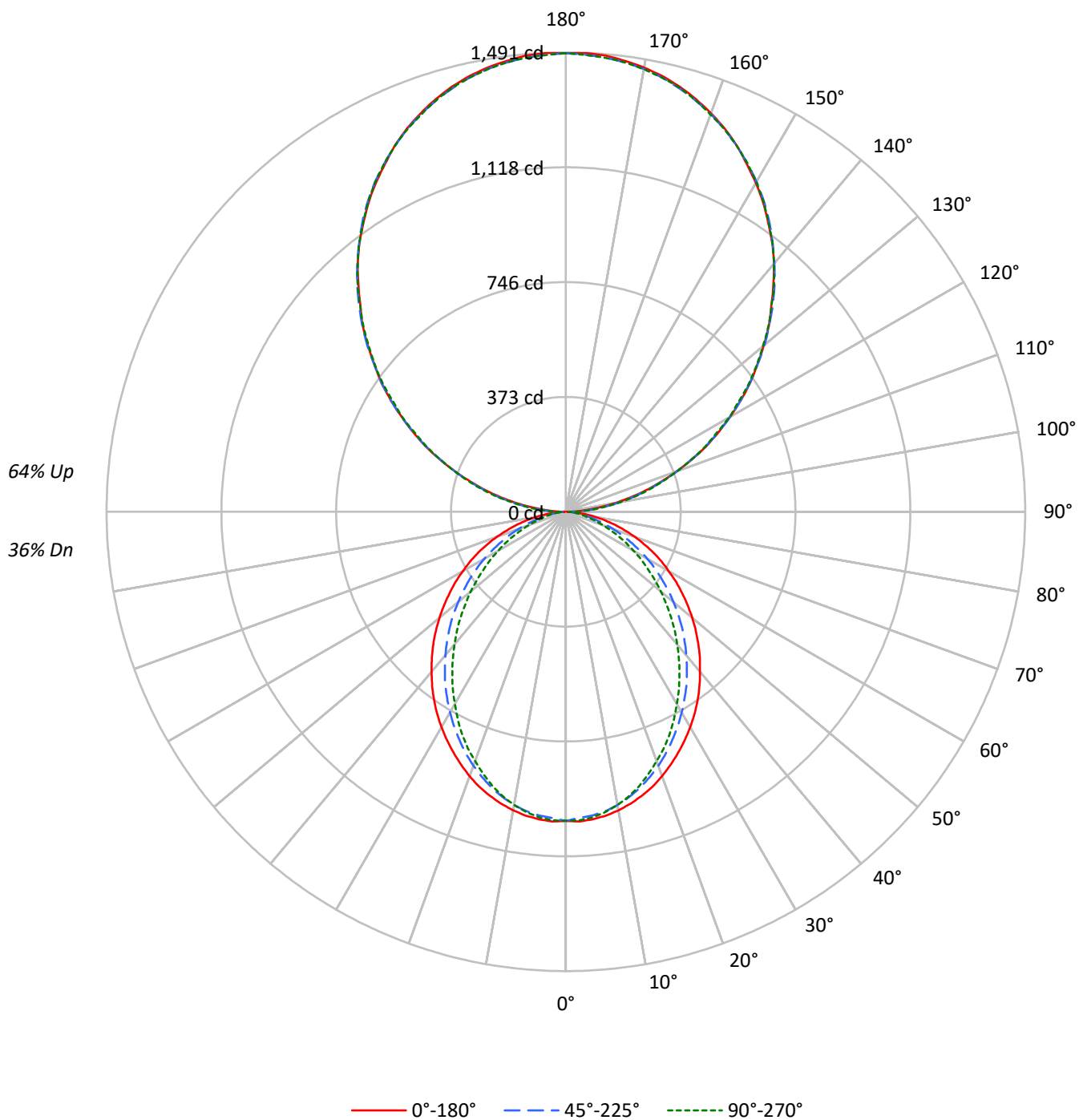
Lumens per Lamp: N/A
Luminaire Lumens: 6451.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	30	10
RCR																	
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	38	37
2	86	79	73	69	78	72	67	63	58	55	52	46	43	41	34	33	31
3	79	70	63	57	71	64	58	53	52	47	44	41	38	35	30	28	27
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20
6	61	49	42	36	55	45	38	33	37	32	28	29	26	23	22	20	18
7	56	45	37	31	51	41	34	29	34	28	25	27	23	20	20	18	16
8	52	40	33	28	47	37	30	26	31	26	22	24	21	18	19	16	14
9	49	37	30	25	44	34	27	23	28	23	20	22	19	16	17	15	13
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8181	8181	8181
5°	8182	7938	7938
10°	8112	7687	7595
15°	8000	7375	7191
20°	7854	7020	6730
25°	7672	6636	6280
30°	7493	6245	5774
35°	7298	5848	5280
40°	7064	5421	4772
45°	6845	4998	4269
50°	6596	4535	3759
55°	6327	4060	3232
60°	6028	3557	2711
65°	5739	2979	2210
70°	5330	2371	1689
75°	4804	1726	1181
80°	4014	1059	850
85°	3020	610	467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6845 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.5
10°-20°	263.0	4.1
20°-30°	379.7	5.9
30°-40°	430.4	6.7
40°-50°	415.5	6.4
50°-60°	345.5	5.4
60°-70°	238.4	3.7
70°-80°	120.5	1.9
80°-90°	33.8	0.5
90°-100°	97.0	1.5
100°-110°	290.6	4.5
110°-120°	493.7	7.7
120°-130°	651.1	10.1
130°-140°	731.2	11.3
140°-150°	718.7	11.1
150°-160°	604.5	9.4
160°-170°	402.2	6.2
170°-180°	140.8	2.2
0°-30°	737.1	11.4
0°-40°	1167.5	18.1
0°-60°	1928.5	29.9
0°-90°	2321.2	36.0
90°-120°	881.3	13.7
90°-150°	2982.3	46.2
90°-180°	4130.0	64.0
0°-180°	6451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1002	999	989	997	996	95
15°	954	947	928	926	921	269
25°	863	849	817	804	797	397
35°	746	721	683	657	643	466
45°	608	580	534	496	482	469
55°	461	430	380	340	326	412
65°	313	280	231	198	189	309
75°	167	138	102	84	80	176
85°	42	26	24	22	22	46
90°	4	16	25	32	34	7
95°	69	79	88	91	91	75
105°	268	269	274	277	281	284
115°	502	502	500	498	497	495
125°	731	731	730	728	725	652
135°	943	950	950	947	944	729
145°	1145	1150	1151	1150	1146	717
155°	1312	1312	1311	1316	1311	604
165°	1429	1425	1423	1430	1425	403
175°	1486	1480	1479	1487	1479	141
180°	1488	1488	1488	1488	1488	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.2	1003.2	1003.2	1003.2	1003.2
2.5°	1006.3	1003.2	994.8	1003.2	1002.4
5°	1001.7	998.6	989.4	997.1	995.5
7.5°	994.8	991.7	980.2	985.5	983.2
10°	984.0	980.2	966.3	969.4	966.3
12.5°	970.2	965.6	948.7	950.2	945.6
15°	954.0	947.1	927.9	926.4	921.0
17.5°	935.6	925.6	903.3	899.5	891.8
20°	913.3	903.3	877.2	871.1	861.1
22.5°	888.7	877.2	848.8	838.8	831.1
25°	862.6	848.8	817.3	804.2	796.6
27.5°	835.7	818.8	785.8	770.5	759.7
30°	807.3	788.1	752.0	732.8	720.5
32.5°	777.4	755.1	717.4	694.4	682.9
35°	745.9	721.3	682.9	656.8	642.9
37.5°	712.8	687.5	645.2	616.8	603.0
40°	677.5	652.2	608.4	576.1	562.3
42.5°	643.7	616.8	570.7	537.7	523.1
45°	608.4	580.0	533.9	496.2	482.4
47.5°	572.3	543.1	495.5	456.3	440.9
50°	535.4	505.4	456.3	417.9	403.3
52.5°	497.8	468.6	417.9	378.7	363.3
55°	460.9	430.2	380.2	340.3	325.7
57.5°	424.8	392.5	343.4	302.6	291.9
60°	385.6	354.9	305.7	265.8	253.5
62.5°	350.3	318.0	267.3	231.2	222.0
65°	313.4	280.4	231.2	198.2	189.0
67.5°	275.0	243.5	197.4	168.2	157.5
70°	238.9	206.6	162.8	137.5	129.8
72.5°	200.5	172.1	131.4	110.6	103.7
75°	166.7	138.3	102.2	84.5	79.9
77.5°	131.4	106.8	76.0	63.8	62.2
80°	97.6	75.3	52.2	49.9	49.2
82.5°	68.4	48.4	37.6	36.1	35.3
85°	41.5	26.1	23.8	22.3	22.3
87.5°	17.7	11.5	10.8	10.0	10.8
90°	3.5	16.1	25.3	32.2	34.5
92.5°	29.9	44.9	50.7	54.1	55.3
95°	69.1	79.4	87.5	90.9	90.9
97.5°	110.5	119.7	128.9	133.5	133.5
100°	161.2	165.8	176.1	178.4	178.4
102.5°	214.1	215.3	224.5	227.9	229.1
105°	268.2	269.4	274.0	277.4	280.9
107.5°	324.6	325.8	326.9	331.5	330.4
110°	382.2	384.5	383.3	381.0	384.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	442.0	442.0	439.7	439.7	439.7
115°	501.9	501.9	499.6	498.4	497.3
117.5°	558.3	558.3	557.2	553.7	550.2
120°	614.7	619.3	615.9	610.1	612.4
122.5°	673.4	674.6	673.4	670.0	664.2
125°	731.0	731.0	729.8	727.5	725.2
127.5°	782.8	786.2	783.9	781.6	780.5
130°	838.0	841.5	841.5	839.2	834.6
132.5°	894.4	896.7	895.6	893.3	892.1
135°	942.8	949.7	949.7	947.4	943.9
137.5°	996.9	1000.3	1002.6	999.2	1000.3
140°	1051.0	1053.3	1053.3	1052.1	1051.0
142.5°	1100.5	1102.8	1101.6	1101.6	1101.6
145°	1145.4	1150.0	1151.1	1150.0	1146.5
147.5°	1191.4	1197.2	1196.0	1194.9	1193.7
150°	1232.9	1237.5	1237.5	1237.5	1236.3
152.5°	1272.0	1274.3	1275.5	1278.9	1275.5
155°	1312.3	1312.3	1311.1	1315.7	1311.1
157.5°	1346.8	1344.5	1344.5	1348.0	1344.5
160°	1376.8	1375.6	1374.5	1377.9	1372.2
162.5°	1404.4	1400.9	1399.8	1406.7	1400.9
165°	1428.6	1425.1	1422.8	1429.7	1425.1
167.5°	1448.1	1443.5	1443.5	1450.4	1443.5
170°	1464.2	1458.5	1459.6	1466.5	1458.5
172.5°	1475.8	1471.2	1471.2	1479.2	1471.2
175°	1486.1	1480.4	1479.2	1487.3	1479.2
177.5°	1490.7	1485.0	1485.0	1493.0	1483.8
180°	1488.4	1488.4	1488.4	1488.4	1488.4

(END OF REPORT)