

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: P1026438

Luminaire Tested: S124RDIP-B575D1205UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026438
REPORT IS A COMBINATION OF REPORTS P999498 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D1205UB50-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

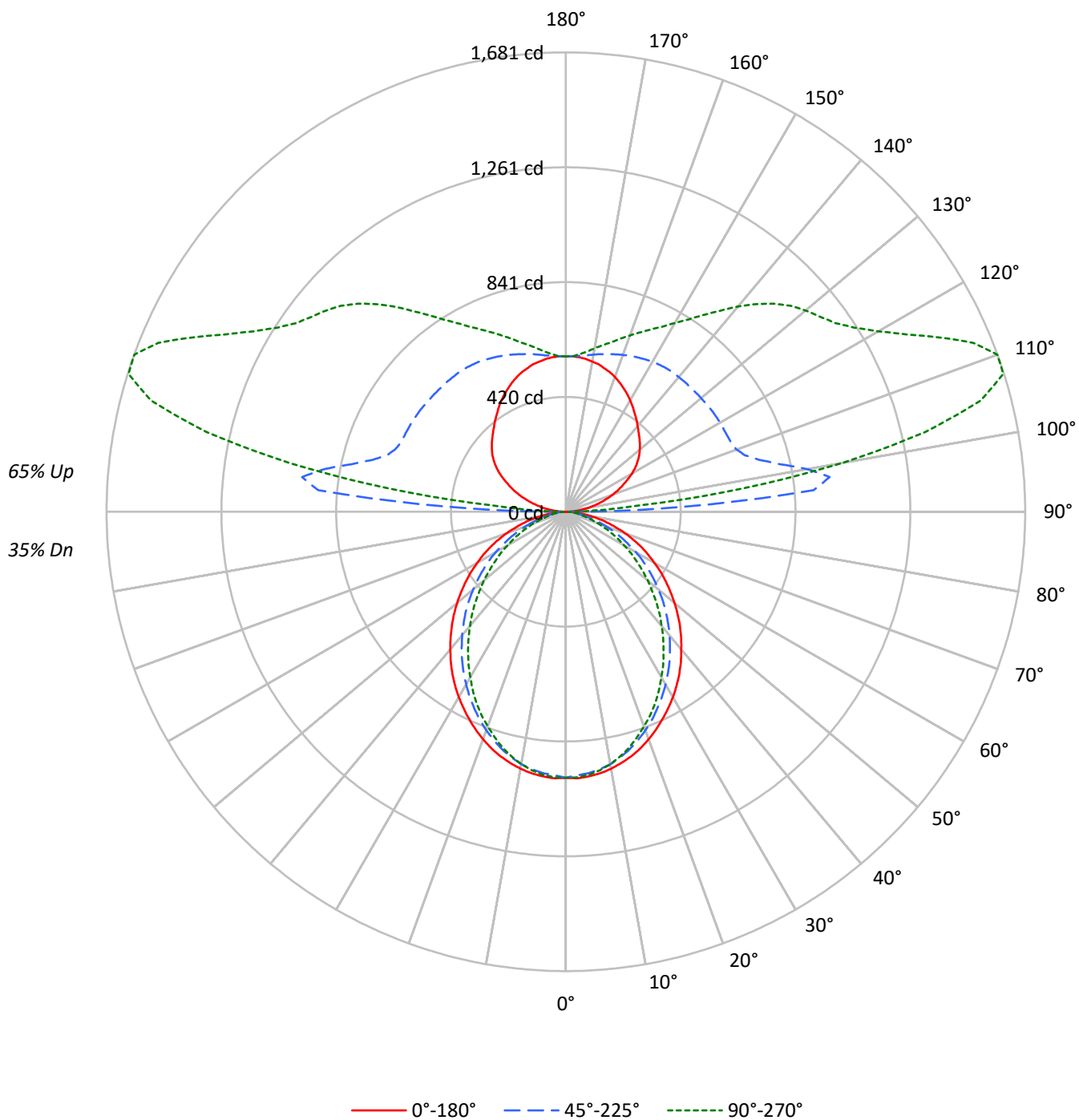
Lumens per Lamp: N/A
Luminaire Lumens: 6399.2 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1026438

CATALOG NUMBER: S124RDIP-B575D1205UB50-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1026438

CATALOG NUMBER: S124RDIP-B575D1205UB50-4F0-XX-W2A-F4

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	75	75	75	58	58	58	43	43	43
1	95	91	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36
2	86	79	73	68	78	72	67	63	58	55	52	45	43	41	34	32	31
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26
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	32	29	26	24	22	20
6	61	49	41	36	55	45	38	33	37	32	28	29	25	23	22	20	18
7	56	44	37	31	51	41	34	29	33	28	25	26	23	20	20	18	16
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	18	16	14
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7937	7937	7937
5°	7937	7701	7702
10°	7870	7459	7370
15°	7762	7156	6977
20°	7620	6811	6530
25°	7444	6439	6093
30°	7271	6059	5603
35°	7080	5674	5123
40°	6853	5260	4630
45°	6641	4849	4142
50°	6400	4400	3647
55°	6139	3940	3136
60°	5848	3451	2630
65°	5569	2890	2144
70°	5171	2301	1639
75°	4660	1674	1146
80°	3895	1028	824
85°	2925	592	453

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6641 cd/sqm

TEST NUMBER: P1026438

CATALOG NUMBER: S124RDIP-B575D1205UB50-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	1.4
10°-20°	255.2	4.0
20°-30°	368.4	5.8
30°-40°	417.6	6.5
40°-50°	403.2	6.3
50°-60°	335.2	5.2
60°-70°	231.3	3.6
70°-80°	116.9	1.8
80°-90°	31.9	0.5
90°-100°	422.2	6.6
100°-110°	858.7	13.4
110°-120°	765.4	12.0
120°-130°	642.9	10.0
130°-140°	536.5	8.4
140°-150°	409.8	6.4
150°-160°	288.0	4.5
160°-170°	169.4	2.6
170°-180°	55.1	0.9
0°-30°	715.2	11.2
0°-40°	1132.7	17.7
0°-60°	1871.1	29.2
0°-90°	2251.1	35.2
90°-120°	2046.3	32.0
90°-150°	3635.6	56.8
90°-180°	4148.0	64.8
0°-180°	6399.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	972	969	960	967	966	92
15°	926	919	900	899	894	261
25°	837	824	793	780	773	386
35°	724	700	663	637	624	452
45°	590	563	518	482	468	455
55°	447	417	369	330	316	400
65°	304	272	224	192	183	300
75°	162	134	99	82	78	171
85°	40	25	23	22	22	44
90°	1	9	20	22	24	5
95°	37	116	910	451	272	40
105°	131	189	732	1577	1571	139
115°	230	289	653	1255	1509	228
125°	320	381	650	1068	1204	286
135°	381	453	644	948	1076	294
145°	439	502	641	800	879	275
155°	499	539	623	706	736	230
165°	544	561	597	633	642	154
175°	567	568	573	581	578	54
180°	568	568	568	568	568	

TEST NUMBER: P1026438

CATALOG NUMBER: S124RDIP-B575D1205UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.3	973.3	973.3	973.3	973.3
2.5°	976.3	973.3	965.1	973.3	972.6
5°	971.8	968.9	959.9	967.4	965.9
7.5°	965.1	962.2	951.0	956.2	954.0
10°	954.7	951.0	937.6	940.5	937.6
12.5°	941.3	936.8	920.4	921.9	917.4
15°	925.6	918.9	900.3	898.8	893.6
17.5°	907.8	898.1	876.5	872.7	865.3
20°	886.1	876.5	851.1	845.1	835.5
22.5°	862.3	851.1	823.5	813.8	806.4
25°	837.0	823.5	793.0	780.3	772.9
27.5°	810.9	794.5	762.4	747.5	737.1
30°	783.3	764.7	729.6	711.0	699.1
32.5°	754.2	732.6	696.1	673.7	662.6
35°	723.7	699.8	662.6	637.2	623.8
37.5°	691.6	667.0	626.0	598.5	585.0
40°	657.3	632.7	590.3	559.0	545.5
42.5°	624.5	598.5	553.7	521.7	507.5
45°	590.3	562.7	518.0	481.5	468.0
47.5°	555.2	526.9	480.7	442.7	427.8
50°	519.5	490.4	442.7	405.4	391.3
52.5°	482.9	454.6	405.4	367.4	352.5
55°	447.2	417.4	368.9	330.2	316.0
57.5°	412.1	380.8	333.1	293.6	283.2
60°	374.1	344.3	296.6	257.9	245.9
62.5°	339.8	308.5	259.4	224.3	215.4
65°	304.1	272.0	224.3	192.3	183.3
67.5°	266.8	236.3	191.5	163.2	152.8
70°	231.8	200.5	158.0	133.4	126.0
72.5°	194.5	166.9	127.4	107.3	100.6
75°	161.7	134.2	99.1	82.0	77.5
77.5°	127.4	103.6	73.8	61.9	60.4
80°	94.7	73.0	50.7	48.4	47.7
82.5°	66.3	47.0	36.5	35.0	34.3
85°	40.2	25.3	23.1	21.6	21.6
87.5°	17.1	11.2	10.4	9.7	10.4
90°	1.1	8.9	20.1	22.3	23.5
92.5°	15.6	86.0	437.7	144.6	101.6
95°	36.9	116.2	910.1	450.6	272.5
97.5°	61.4	128.4	973.8	920.2	654.4
100°	84.9	145.2	897.8	1273.0	1024.0
102.5°	107.2	165.2	802.9	1494.2	1345.6
105°	130.7	189.3	732.5	1577.3	1571.2
107.5°	156.3	213.8	686.8	1552.2	1678.4
110°	182.0	238.4	665.5	1462.8	1680.6

TEST NUMBER: P1026438

CATALOG NUMBER: S124RDIP-B575D1205UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	206.6	263.0	655.5	1353.4	1614.7
115°	230.0	288.6	653.3	1255.2	1508.6
117.5°	254.6	312.6	652.1	1178.1	1404.8
120°	279.2	336.2	652.1	1126.2	1319.9
122.5°	301.5	359.0	651.0	1092.1	1252.9
125°	320.5	380.8	649.9	1068.1	1203.8
127.5°	338.4	400.9	647.7	1045.2	1172.5
130°	352.9	420.4	646.6	1017.9	1145.7
132.5°	367.4	437.2	645.4	985.5	1115.6
135°	380.8	453.4	644.3	948.1	1076.5
137.5°	394.2	467.4	644.3	907.9	1030.7
140°	408.7	480.2	643.2	868.8	980.5
142.5°	424.3	491.9	643.2	832.4	926.9
145°	438.9	502.5	641.0	799.6	878.8
147.5°	455.6	512.6	637.6	772.2	834.2
150°	471.2	522.0	634.3	747.0	797.3
152.5°	485.8	531.0	628.7	725.8	763.8
155°	499.2	538.8	623.1	705.7	735.9
157.5°	512.6	546.1	617.5	686.8	710.2
160°	524.8	552.2	610.8	667.8	686.8
162.5°	536.0	557.2	604.1	649.3	664.4
165°	543.8	560.6	597.4	632.6	642.1
167.5°	552.8	563.4	590.7	618.1	624.2
170°	558.3	565.6	584.0	603.6	607.5
172.5°	563.9	567.3	577.3	590.7	590.7
175°	567.3	568.4	572.9	580.7	578.4
177.5°	569.5	568.4	569.5	573.4	569.5
180°	568.4	568.4	568.4	568.4	568.4

(END OF REPORT)