

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: P1026407

Luminaire Tested: S124RDIP-B575D1035UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026407
REPORT IS A COMBINATION OF REPORTS P999457 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D1035UB50-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

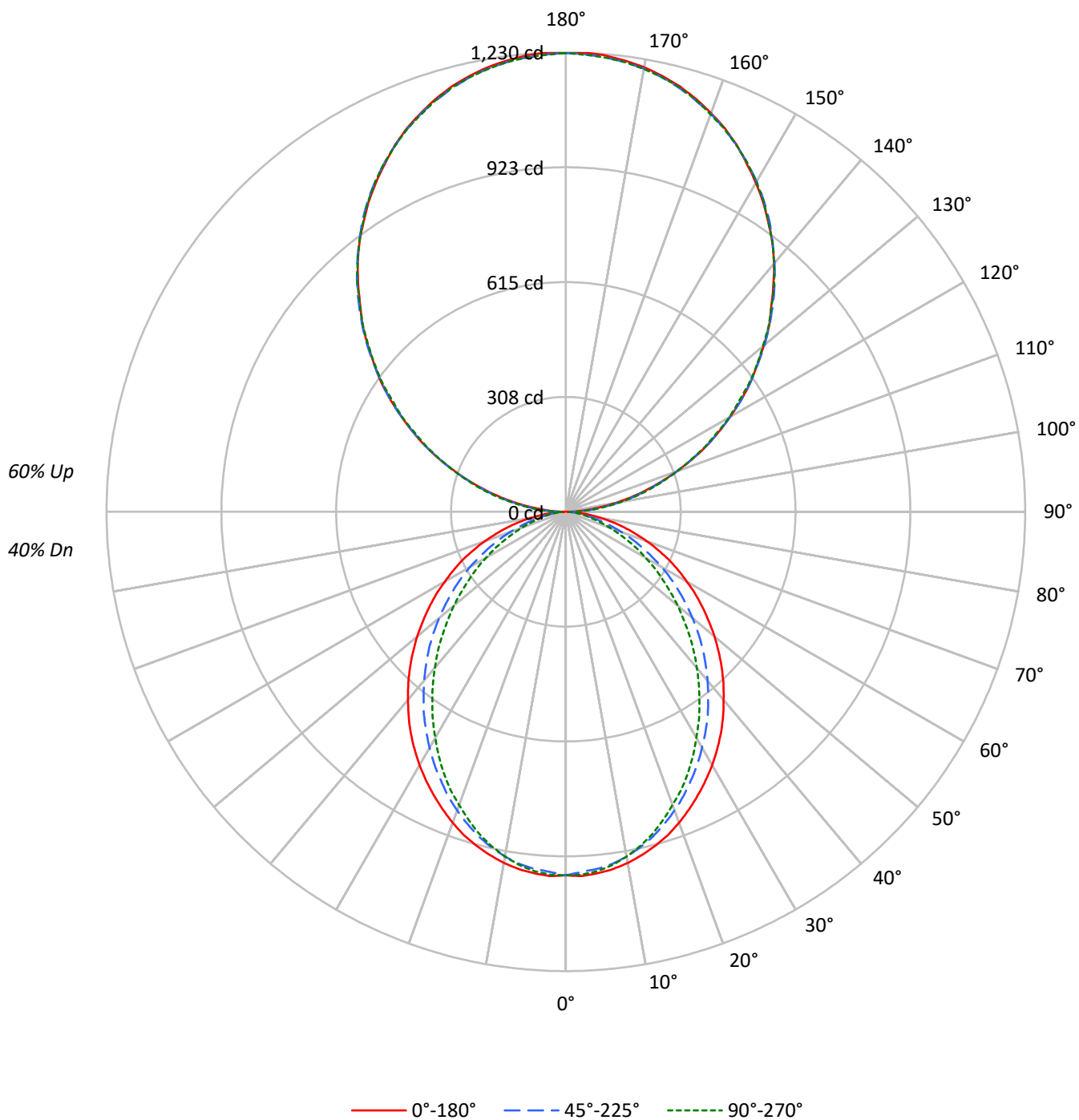
Lumens per Lamp: N/A
Luminaire Lumens: 5660.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47
1	96	92	88	84	87	83	80	77	68	66	64	54	53	52	42	41	40
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	35	34
3	80	71	64	58	72	65	58	54	53	49	45	43	40	37	33	31	29
4	73	63	55	49	66	57	51	45	47	42	39	38	35	32	29	27	25
5	67	56	48	42	61	51	44	39	42	37	33	34	30	28	27	24	22
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19
7	57	45	37	32	52	41	35	30	35	29	26	28	24	21	22	19	17
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	20	18	16
9	49	37	30	25	45	34	28	24	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	17	15	13

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	1.6
10°-20°	255.2	4.5
20°-30°	368.4	6.5
30°-40°	417.6	7.4
40°-50°	403.2	7.1
50°-60°	335.2	5.9
60°-70°	231.3	4.1
70°-80°	116.9	2.1
80°-90°	32.3	0.6
90°-100°	80.1	1.4
100°-110°	239.8	4.2
110°-120°	407.4	7.2
120°-130°	537.3	9.5
130°-140°	603.5	10.7
140°-150°	593.2	10.5
150°-160°	498.9	8.8
160°-170°	332.0	5.9
170°-180°	116.2	2.1
0°-30°	715.2	12.6
0°-40°	1132.7	20.0
0°-60°	1871.1	33.1
0°-90°	2251.6	39.8
90°-120°	727.4	12.9
90°-150°	2461.3	43.5
90°-180°	3408.0	60.2
0°-180°	5660.0	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°	3	13	21	27	28	7
95°	57	66	72	75	75	62
105°	221	222	226	229	232	235
115°	414	414	412	411	410	409
125°	603	603	602	600	598	538
135°	778	784	784	782	779	602
145°	945	949	950	949	946	592
155°	1083	1083	1082	1086	1082	498
165°	1179	1176	1174	1180	1176	332
175°	1226	1222	1221	1228	1221	116
180°	1228	1228	1228	1228	1228	

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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°	2.9	13.3	20.9	26.6	28.5
92.5°	24.7	37.1	41.8	44.7	45.6
95°	57.0	65.6	72.2	75.1	75.1
97.5°	91.2	98.8	106.4	110.2	110.2
100°	133.0	136.8	145.4	147.3	147.3
102.5°	176.7	177.7	185.3	188.1	189.1
105°	221.4	222.3	226.1	229.0	231.8
107.5°	267.9	268.9	269.8	273.6	272.7
110°	315.4	317.3	316.4	314.5	317.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	364.8	364.8	362.9	362.9	362.9
115°	414.2	414.2	412.3	411.4	410.4
117.5°	460.8	460.8	459.8	457.0	454.1
120°	507.3	511.1	508.3	503.5	505.4
122.5°	555.8	556.7	555.8	552.9	548.2
125°	603.3	603.3	602.3	600.4	598.5
127.5°	646.0	648.9	647.0	645.1	644.1
130°	691.6	694.5	694.5	692.6	688.8
132.5°	738.2	740.1	739.1	737.2	736.3
135°	778.1	783.8	783.8	781.9	779.0
137.5°	822.7	825.6	827.5	824.6	825.6
140°	867.4	869.3	869.3	868.3	867.4
142.5°	908.2	910.1	909.2	909.2	909.2
145°	945.3	949.1	950.0	949.1	946.2
147.5°	983.3	988.0	987.1	986.1	985.2
150°	1017.5	1021.3	1021.3	1021.3	1020.3
152.5°	1049.8	1051.7	1052.6	1055.5	1052.6
155°	1083.0	1083.0	1082.1	1085.9	1082.1
157.5°	1111.6	1109.7	1109.7	1112.5	1109.7
160°	1136.3	1135.3	1134.4	1137.2	1132.5
162.5°	1159.1	1156.2	1155.3	1161.0	1156.2
165°	1179.0	1176.2	1174.3	1180.0	1176.2
167.5°	1195.2	1191.4	1191.4	1197.1	1191.4
170°	1208.5	1203.7	1204.7	1210.4	1203.7
172.5°	1218.0	1214.2	1214.2	1220.8	1214.2
175°	1226.5	1221.8	1220.8	1227.5	1220.8
177.5°	1230.3	1225.6	1225.6	1232.2	1224.6
180°	1228.4	1228.4	1228.4	1228.4	1228.4

(END OF REPORT)