

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: P1026504

Luminaire Tested: S124RDIP-B575D810UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026504
REPORT IS A COMBINATION OF REPORTS P999584 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D810UB27-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

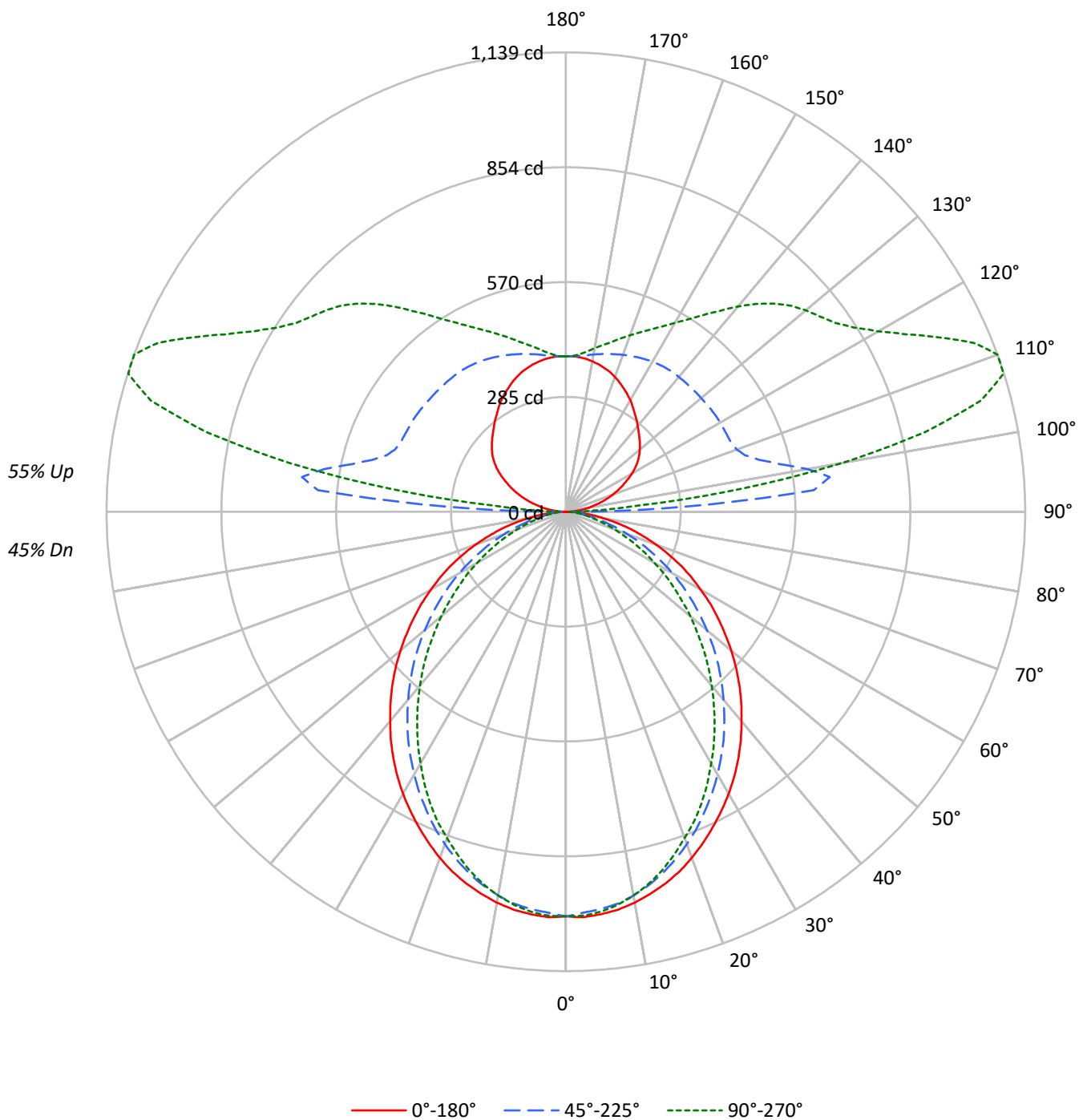
Lumens per Lamp: N/A
Luminaire Lumens: 5131.7 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44
2	88	81	75	70	81	75	70	65	63	59	56	51	49	46	41	39	38
3	81	72	64	59	74	66	60	55	55	51	47	46	42	39	36	34	32
4	74	63	56	50	68	59	52	47	49	44	40	41	37	34	33	30	28
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	29	27	24
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17
9	50	38	31	26	46	35	29	24	30	25	21	25	21	19	21	18	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	19	16	14

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	1.8
10°-20°	263.0	5.1
20°-30°	379.7	7.4
30°-40°	430.4	8.4
40°-50°	415.5	8.1
50°-60°	345.5	6.7
60°-70°	238.4	4.6
70°-80°	120.5	2.3
80°-90°	32.1	0.6
90°-100°	286.2	5.6
100°-110°	582.2	11.3
110°-120°	518.9	10.1
120°-130°	435.9	8.5
130°-140°	363.7	7.1
140°-150°	277.8	5.4
150°-160°	195.3	3.8
160°-170°	114.8	2.2
170°-180°	37.3	0.7
0°-30°	737.1	14.4
0°-40°	1167.5	22.8
0°-60°	1928.5	37.6
0°-90°	2319.5	45.2
90°-120°	1387.3	27.0
90°-150°	2464.7	48.0
90°-180°	2812.0	54.8
0°-180°	5131.7	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°	1	6	14	15	16	4
95°	25	79	617	305	185	27
105°	89	128	497	1069	1065	94
115°	156	196	443	851	1023	155
125°	217	258	441	724	816	194
135°	258	307	437	643	730	200
145°	298	341	434	542	596	187
155°	338	365	422	478	499	156
165°	369	380	405	429	435	104
175°	385	385	388	394	392	37
180°	385	385	385	385	385	

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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°	0.8	6.1	13.6	15.1	15.9
92.5°	10.6	58.3	296.8	98.0	68.9
95°	25.0	78.7	617.0	305.4	184.7
97.5°	41.6	87.1	660.1	623.8	443.6
100°	57.5	98.4	608.7	863.0	694.2
102.5°	72.7	112.0	544.3	1013.0	912.2
105°	88.6	128.3	496.6	1069.3	1065.2
107.5°	106.0	145.0	465.6	1052.3	1137.8
110°	123.4	161.6	451.2	991.8	1139.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	140.1	178.3	444.4	917.6	1094.7
115°	156.0	195.7	442.9	851.0	1022.8
117.5°	172.6	212.0	442.1	798.7	952.4
120°	189.3	227.9	442.1	763.5	894.8
122.5°	204.4	243.4	441.4	740.4	849.4
125°	217.3	258.2	440.6	724.1	816.1
127.5°	229.4	271.8	439.1	708.6	794.9
130°	239.2	285.0	438.3	690.0	776.7
132.5°	249.1	296.4	437.6	668.1	756.3
135°	258.2	307.4	436.8	642.8	729.8
137.5°	267.2	316.8	436.8	615.5	698.7
140°	277.1	325.5	436.1	589.0	664.7
142.5°	287.7	333.5	436.1	564.4	628.3
145°	297.5	340.6	434.5	542.0	595.8
147.5°	308.9	347.5	432.3	523.5	565.5
150°	319.5	353.9	430.0	506.4	540.5
152.5°	329.3	360.0	426.2	492.1	517.8
155°	338.4	365.3	422.4	478.4	498.9
157.5°	347.5	370.2	418.6	465.6	481.5
160°	355.8	374.4	414.1	452.7	465.6
162.5°	363.4	377.8	409.6	440.2	450.4
165°	368.7	380.0	405.0	428.9	435.3
167.5°	374.7	381.9	400.5	419.0	423.2
170°	378.5	383.5	395.9	409.2	411.8
172.5°	382.3	384.6	391.4	400.4	400.5
175°	384.6	385.3	388.4	393.7	392.1
177.5°	386.1	385.3	386.1	388.8	386.1
180°	385.3	385.3	385.3	385.3	385.3

(END OF REPORT)