

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: P1026522

Luminaire Tested: S124RDIP-B575D810UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026522
REPORT IS A COMBINATION OF REPORTS P999612 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D810UB40-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

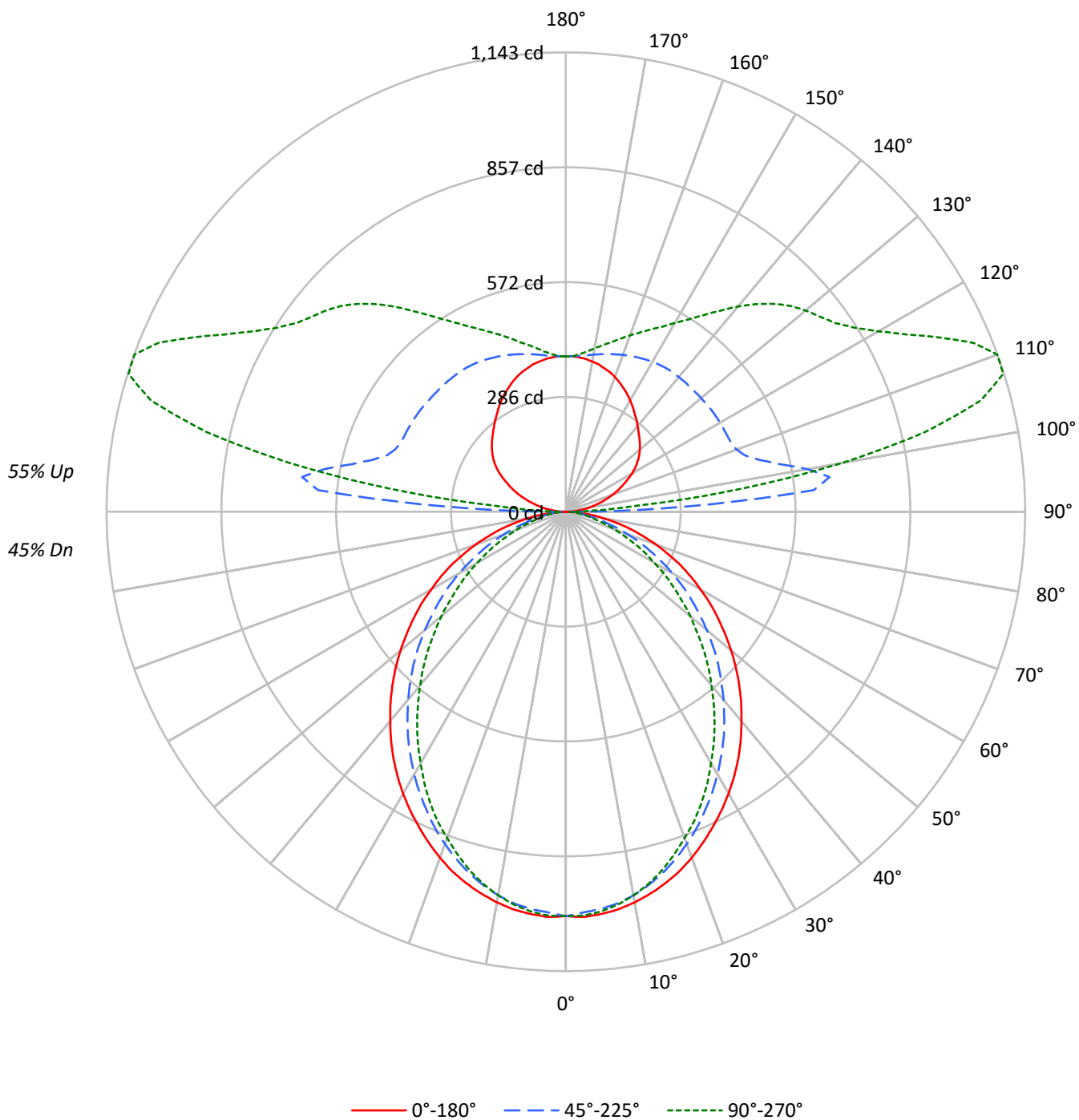
Lumens per Lamp: N/A
Luminaire Lumens: 5146.6 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	30	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°	8205	8205	8205
5°	8206	7962	7962
10°	8137	7710	7618
15°	8025	7397	7213
20°	7878	7041	6750
25°	7695	6656	6299
30°	7517	6264	5792
35°	7319	5865	5296
40°	7086	5437	4787
45°	6865	5013	4283
50°	6615	4549	3770
55°	6346	4073	3242
60°	6046	3567	2720
65°	5758	2988	2216
70°	5345	2378	1694
75°	4818	1731	1184
80°	4022	1063	852
85°	3027	612	467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6865 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	1.8
10°-20°	263.8	5.1
20°-30°	380.9	7.4
30°-40°	431.7	8.4
40°-50°	416.8	8.1
50°-60°	346.5	6.7
60°-70°	239.2	4.6
70°-80°	120.8	2.3
80°-90°	32.2	0.6
90°-100°	287.0	5.6
100°-110°	583.8	11.3
110°-120°	520.4	10.1
120°-130°	437.1	8.5
130°-140°	364.8	7.1
140°-150°	278.6	5.4
150°-160°	195.8	3.8
160°-170°	115.2	2.2
170°-180°	37.4	0.7
0°-30°	739.3	14.4
0°-40°	1171.0	22.8
0°-60°	1934.3	37.6
0°-90°	2326.5	45.2
90°-120°	1391.3	27.0
90°-150°	2471.7	48.0
90°-180°	2820.0	54.8
0°-180°	5146.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1005	1002	992	1000	998	95
15°	957	950	931	929	924	270
25°	865	851	820	807	799	399
35°	748	724	685	659	645	468
45°	610	582	536	498	484	471
55°	462	432	381	341	327	414
65°	314	281	232	199	190	310
75°	167	139	102	85	80	176
85°	42	26	24	22	22	46
90°	1	6	14	15	16	4
95°	25	79	619	306	185	27
105°	89	129	498	1072	1068	95
115°	156	196	444	853	1026	155
125°	218	259	442	726	818	194
135°	259	308	438	645	732	200
145°	298	342	436	544	598	187
155°	339	366	424	480	500	157
165°	370	381	406	430	436	104
175°	386	386	390	395	393	37
180°	386	386	386	386	386	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.2	1006.2	1006.2	1006.2	1006.2
2.5°	1009.3	1006.2	997.8	1006.2	1005.5
5°	1004.7	1001.6	992.4	1000.1	998.5
7.5°	997.8	994.7	983.1	988.5	986.2
10°	987.0	983.1	969.2	972.3	969.2
12.5°	973.1	968.5	951.5	953.1	948.4
15°	956.9	950.0	930.7	929.2	923.8
17.5°	938.4	928.4	906.1	902.2	894.5
20°	916.1	906.1	879.9	873.7	863.7
22.5°	891.4	879.9	851.4	841.3	833.6
25°	865.2	851.4	819.8	806.7	799.0
27.5°	838.3	821.3	788.2	772.8	762.0
30°	809.8	790.5	754.3	735.0	722.7
32.5°	779.7	757.4	719.6	696.5	684.9
35°	748.1	723.5	684.9	658.7	644.9
37.5°	715.0	689.6	647.2	618.7	604.8
40°	679.6	654.1	610.2	577.8	564.0
42.5°	645.7	618.7	572.5	539.3	524.7
45°	610.2	581.7	535.5	497.7	483.9
47.5°	574.0	544.7	497.0	457.7	442.2
50°	537.0	507.0	457.7	419.1	404.5
52.5°	499.3	470.0	419.1	379.8	364.4
55°	462.3	431.5	381.4	341.3	326.7
57.5°	426.1	393.7	344.4	303.6	292.8
60°	386.8	356.0	306.6	266.6	254.3
62.5°	351.3	319.0	268.1	231.9	222.7
65°	314.4	281.2	231.9	198.8	189.5
67.5°	275.8	244.2	198.0	168.7	157.9
70°	239.6	207.3	163.3	137.9	130.2
72.5°	201.1	172.6	131.7	110.9	104.0
75°	167.2	138.7	102.5	84.8	80.1
77.5°	131.7	107.1	76.3	63.9	62.4
80°	97.8	75.5	52.4	50.1	49.3
82.5°	68.6	48.5	37.8	36.2	35.4
85°	41.6	26.2	23.9	22.3	22.3
87.5°	17.7	11.6	10.8	10.0	10.8
90°	0.8	6.1	13.7	15.2	15.9
92.5°	10.6	58.4	297.6	98.3	69.1
95°	25.1	79.0	618.7	306.4	185.2
97.5°	41.8	87.3	662.0	625.6	444.9
100°	57.7	98.6	610.4	865.5	696.2
102.5°	72.9	112.4	545.9	1015.8	914.8
105°	88.8	128.7	498.0	1072.4	1068.2
107.5°	106.3	145.4	466.9	1055.3	1141.1
110°	123.7	162.0	452.5	994.6	1142.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	140.5	178.8	445.6	920.2	1097.8
115°	156.4	196.2	444.1	853.4	1025.7
117.5°	173.1	212.6	443.4	801.0	955.1
120°	189.8	228.5	443.4	765.7	897.4
122.5°	205.0	244.0	442.6	742.5	851.8
125°	217.9	258.9	441.9	726.2	818.4
127.5°	230.0	272.5	440.3	710.6	797.2
130°	239.9	285.8	439.6	692.0	778.9
132.5°	249.8	297.2	438.8	670.0	758.4
135°	258.9	308.2	438.1	644.6	731.9
137.5°	268.0	317.7	438.1	617.2	700.7
140°	277.9	326.5	437.3	590.7	666.6
142.5°	288.5	334.4	437.3	566.0	630.1
145°	298.4	341.6	435.8	543.6	597.5
147.5°	309.8	348.5	433.5	525.0	567.1
150°	320.4	354.9	431.2	507.9	542.1
152.5°	330.3	361.0	427.4	493.5	519.3
155°	339.4	366.3	423.6	479.8	500.3
157.5°	348.5	371.2	419.8	466.9	482.8
160°	356.8	375.4	415.3	454.0	466.9
162.5°	364.4	378.8	410.7	441.4	451.7
165°	369.7	381.1	406.2	430.1	436.5
167.5°	375.8	383.0	401.6	420.2	424.4
170°	379.6	384.5	397.1	410.4	413.0
172.5°	383.4	385.6	392.5	401.6	401.6
175°	385.7	386.4	389.5	394.8	393.3
177.5°	387.2	386.4	387.2	389.8	387.2
180°	386.4	386.4	386.4	386.4	386.4

(END OF REPORT)