

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: P1026516

Luminaire Tested: S124RDIP-B575D810UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026516
REPORT IS A COMBINATION OF REPORTS P999606 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D810UB35-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

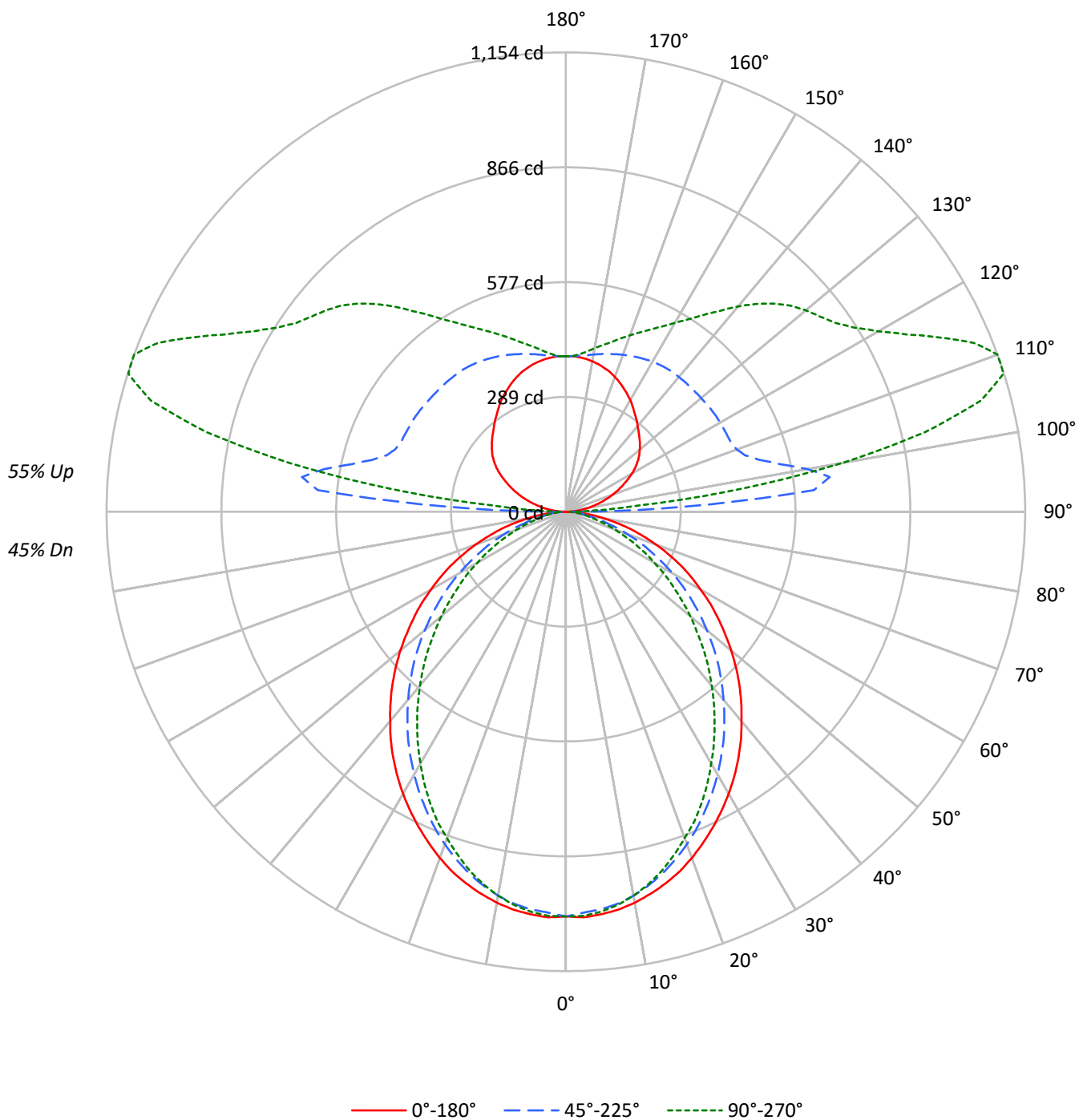
Lumens per Lamp: N/A
Luminaire Lumens: 5199.7 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	106	106	106	106	97	97	97	97	81	81	81		66	66	66		52
1	97	93	89	86	89	85	82	79	71	69	67		58	57	55		46
2	88	81	75	70	81	75	70	65	63	59	56		51	49	46		41
3	81	72	64	59	74	66	60	55	55	51	47		46	42	39		36
4	74	63	56	50	68	59	52	47	49	44	40		41	37	34		33
5	68	57	49	43	62	52	45	40	44	39	35		37	33	30		30
6	63	51	43	37	57	47	40	35	40	34	30		33	29	26		27
7	58	46	38	33	53	43	36	31	36	31	27		30	26	23		25
8	54	42	34	29	49	39	32	27	33	28	24		28	24	21		23
9	50	38	31	26	46	35	29	24	30	25	21		25	21	19		21
10	47	35	28	23	43	33	26	22	28	23	19		24	20	17		19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8290	8290	8290
5°	8291	8044	8044
10°	8221	7790	7698
15°	8108	7474	7287
20°	7959	7114	6820
25°	7775	6724	6364
30°	7594	6328	5852
35°	7394	5926	5350
40°	7159	5493	4836
45°	6936	5064	4326
50°	6684	4596	3809
55°	6412	4115	3275
60°	6109	3604	2748
65°	5816	3019	2240
70°	5401	2403	1712
75°	4867	1748	1198
80°	4068	1073	860
85°	3056	618	474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	1.8
10°-20°	266.5	5.1
20°-30°	384.8	7.4
30°-40°	436.1	8.4
40°-50°	421.1	8.1
50°-60°	350.1	6.7
60°-70°	241.6	4.6
70°-80°	122.1	2.3
80°-90°	32.5	0.6
90°-100°	290.0	5.6
100°-110°	589.8	11.3
110°-120°	525.7	10.1
120°-130°	441.6	8.5
130°-140°	368.5	7.1
140°-150°	281.4	5.4
150°-160°	197.8	3.8
160°-170°	116.4	2.2
170°-180°	37.8	0.7
0°-30°	747.0	14.4
0°-40°	1183.1	22.8
0°-60°	1954.3	37.6
0°-90°	2350.5	45.2
90°-120°	1405.6	27.0
90°-150°	2497.2	48.0
90°-180°	2849.0	54.8
0°-180°	5199.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1015	1012	1003	1010	1009	96
15°	967	960	940	939	933	272
25°	874	860	828	815	807	403
35°	756	731	692	666	652	472
45°	616	588	541	503	489	475
55°	467	436	385	345	330	418
65°	318	284	234	201	192	314
75°	169	140	104	86	81	178
85°	42	26	24	23	23	46
90°	1	6	14	15	16	4
95°	25	80	625	310	187	28
105°	90	130	503	1083	1079	96
115°	158	198	449	862	1036	157
125°	220	262	446	734	827	196
135°	262	311	443	651	739	202
145°	301	345	440	549	604	189
155°	343	370	428	485	506	158
165°	374	385	410	434	441	106
175°	390	390	394	399	397	37
180°	390	390	390	390	390	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.6	1016.6	1016.6	1016.6	1016.6
2.5°	1019.7	1016.6	1008.1	1016.6	1015.8
5°	1015.1	1011.9	1002.6	1010.4	1008.8
7.5°	1008.1	1004.9	993.3	998.7	996.4
10°	997.2	993.3	979.3	982.4	979.3
12.5°	983.1	978.5	961.3	962.9	958.2
15°	966.8	959.8	940.3	938.8	933.3
17.5°	948.1	938.0	915.4	911.5	903.7
20°	925.5	915.4	889.0	882.7	872.6
22.5°	900.6	889.0	860.2	850.0	842.3
25°	874.2	860.2	828.2	815.0	807.2
27.5°	846.9	829.8	796.3	780.8	769.9
30°	818.1	798.7	762.1	742.6	730.2
32.5°	787.8	765.2	727.0	703.7	692.0
35°	755.8	730.9	692.0	665.5	651.5
37.5°	722.4	696.7	653.9	625.1	611.1
40°	686.6	660.9	616.5	583.8	569.8
42.5°	652.3	625.1	578.4	544.9	530.1
45°	616.5	587.7	541.0	502.9	488.8
47.5°	579.9	550.3	502.1	462.4	446.8
50°	542.6	512.2	462.4	423.5	408.7
52.5°	504.4	474.8	423.5	383.8	368.2
55°	467.1	435.9	385.3	344.8	330.1
57.5°	430.5	397.8	348.0	306.7	295.8
60°	390.8	359.6	309.8	269.3	256.9
62.5°	355.0	322.3	270.9	234.3	225.0
65°	317.6	284.1	234.3	200.8	191.5
67.5°	278.7	246.8	200.1	170.5	159.6
70°	242.1	209.4	165.0	139.3	131.6
72.5°	203.2	174.4	133.1	112.1	105.1
75°	168.9	140.1	103.5	85.6	81.0
77.5°	133.1	108.2	77.1	64.6	63.1
80°	98.9	76.3	52.9	50.6	49.8
82.5°	69.3	49.0	38.1	36.6	35.8
85°	42.0	26.5	24.1	22.6	22.6
87.5°	17.9	11.7	10.9	10.1	10.9
90°	0.8	6.1	13.8	15.3	16.1
92.5°	10.7	59.0	300.7	99.3	69.8
95°	25.3	79.8	625.1	309.5	187.2
97.5°	42.2	88.2	668.8	632.0	449.5
100°	58.3	99.7	616.7	874.4	703.4
102.5°	73.6	113.5	551.5	1026.2	924.3
105°	89.7	130.0	503.2	1083.4	1079.2
107.5°	107.4	146.9	471.7	1066.2	1152.8
110°	125.0	163.8	457.1	1004.8	1154.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	180.6	450.2	929.6	1109.1
115°	158.0	198.2	448.7	862.1	1036.2
117.5°	174.9	214.8	447.9	809.2	964.9
120°	191.8	230.8	447.9	773.6	906.6
122.5°	207.1	246.6	447.2	750.2	860.6
125°	220.1	261.6	446.4	733.7	826.8
127.5°	232.4	275.4	444.9	718.0	805.4
130°	242.4	288.8	444.1	699.2	787.0
132.5°	252.3	300.2	443.3	676.9	766.2
135°	261.6	311.4	442.6	651.2	739.4
137.5°	270.8	321.0	442.6	623.6	708.0
140°	280.7	329.8	441.8	596.7	673.4
142.5°	291.5	337.8	441.8	571.8	636.6
145°	301.4	345.2	440.3	549.2	603.6
147.5°	312.9	352.0	438.0	530.4	573.0
150°	323.7	358.6	435.7	513.1	547.6
152.5°	333.7	364.7	431.8	498.6	524.6
155°	342.9	370.0	428.0	484.8	505.5
157.5°	352.1	375.1	424.2	471.8	487.8
160°	360.5	379.3	419.6	458.6	471.7
162.5°	368.2	382.8	415.0	446.0	456.4
165°	373.5	385.0	410.4	434.5	441.0
167.5°	379.7	387.0	405.8	424.6	428.8
170°	383.5	388.5	401.1	414.6	417.3
172.5°	387.3	389.6	396.5	405.8	405.8
175°	389.6	390.4	393.5	398.8	397.3
177.5°	391.2	390.4	391.2	393.8	391.2
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)