

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: P1026455

Luminaire Tested: S124RDIP-B575D365UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026455
REPORT IS A COMBINATION OF REPORTS P999525 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D365UB35-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

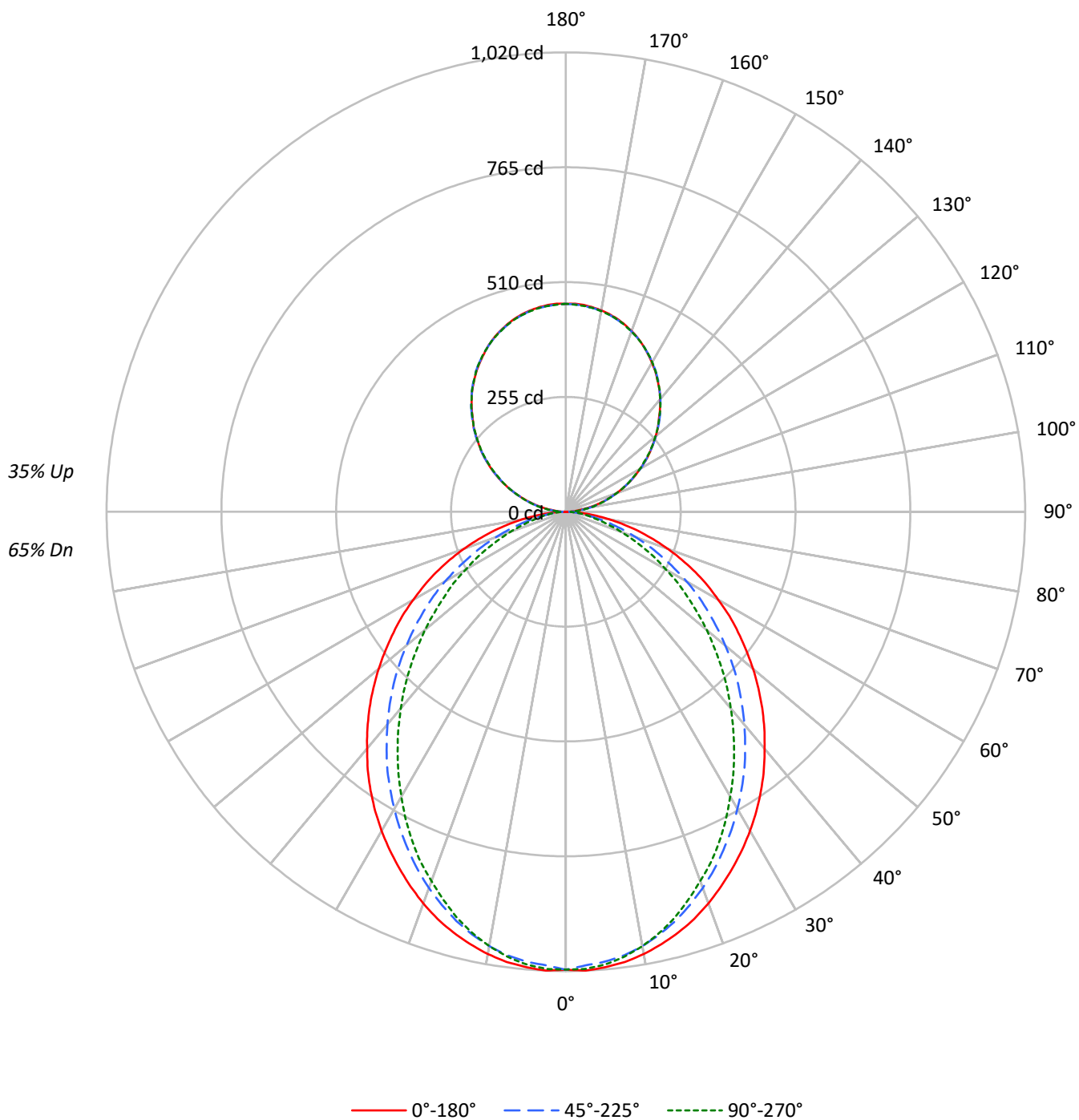
Lumens per Lamp: N/A
Luminaire Lumens: 3631.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	101	97	93	90	95	92	88	85	81	78	76	71	69	68	62	61	60
2	93	85	79	74	87	80	75	70	71	67	64	63	60	57	55	53	51
3	85	75	68	62	79	71	65	59	63	58	54	56	52	49	49	46	44
4	78	67	59	53	73	63	56	51	56	51	46	50	46	42	44	41	38
5	72	60	52	46	67	57	49	44	51	45	40	45	40	37	40	36	33
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	36	32	29
7	61	49	41	35	57	46	39	34	42	36	31	37	32	29	33	29	26
8	57	44	37	31	53	42	35	30	38	32	28	34	29	26	31	27	24
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	28	24	21
10	50	38	30	25	47	36	29	24	32	27	23	29	25	21	26	22	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	2.6
10°-20°	266.5	7.3
20°-30°	384.8	10.6
30°-40°	436.1	12.0
40°-50°	421.1	11.6
50°-60°	350.1	9.6
60°-70°	241.6	6.7
70°-80°	122.1	3.4
80°-90°	32.0	0.9
90°-100°	30.1	0.8
100°-110°	90.1	2.5
110°-120°	153.1	4.2
120°-130°	201.9	5.6
130°-140°	226.8	6.2
140°-150°	222.9	6.1
150°-160°	187.5	5.2
160°-170°	124.8	3.4
170°-180°	43.7	1.2
0°-30°	747.0	20.6
0°-40°	1183.1	32.6
0°-60°	1954.3	53.8
0°-90°	2350.0	64.7
90°-120°	273.3	7.5
90°-150°	925.1	25.5
90°-180°	1281.0	35.3
0°-180°	3631.0	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	5	8	10	11	4
95°	21	25	27	28	28	23
105°	83	84	85	86	87	88
115°	156	156	155	155	154	154
125°	227	227	226	226	225	202
135°	292	295	295	294	293	226
145°	355	357	357	357	356	222
155°	407	407	407	408	407	187
165°	443	442	441	444	442	125
175°	461	459	459	461	459	44
180°	462	462	462	462	462	

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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°	1.1	5.0	7.9	10.0	10.7
92.5°	9.3	13.9	15.7	16.8	17.1
95°	21.4	24.6	27.1	28.2	28.2
97.5°	34.3	37.1	40.0	41.4	41.4
100°	50.0	51.4	54.6	55.3	55.3
102.5°	66.4	66.8	69.6	70.7	71.1
105°	83.2	83.6	85.0	86.1	87.1
107.5°	100.7	101.0	101.4	102.8	102.5
110°	118.5	119.3	118.9	118.2	119.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	137.1	137.1	136.4	136.4	136.4
115°	155.7	155.7	155.0	154.6	154.3
117.5°	173.2	173.2	172.8	171.7	170.7
120°	190.7	192.1	191.0	189.2	190.0
122.5°	208.9	209.2	208.9	207.8	206.0
125°	226.7	226.7	226.4	225.7	225.0
127.5°	242.8	243.9	243.2	242.4	242.1
130°	259.9	261.0	261.0	260.3	258.9
132.5°	277.4	278.2	277.8	277.1	276.7
135°	292.4	294.6	294.6	293.9	292.8
137.5°	309.2	310.3	311.0	309.9	310.3
140°	326.0	326.7	326.7	326.4	326.0
142.5°	341.4	342.1	341.7	341.7	341.7
145°	355.3	356.7	357.1	356.7	355.6
147.5°	369.6	371.3	371.0	370.6	370.3
150°	382.4	383.8	383.8	383.8	383.5
152.5°	394.6	395.3	395.6	396.7	395.6
155°	407.1	407.1	406.7	408.1	406.7
157.5°	417.8	417.1	417.1	418.1	417.1
160°	427.1	426.7	426.3	427.4	425.6
162.5°	435.6	434.6	434.2	436.3	434.6
165°	443.1	442.0	441.3	443.5	442.0
167.5°	449.2	447.8	447.8	449.9	447.8
170°	454.2	452.4	452.8	454.9	452.4
172.5°	457.8	456.3	456.3	458.8	456.3
175°	461.0	459.2	458.8	461.3	458.8
177.5°	462.4	460.6	460.6	463.1	460.3
180°	461.7	461.7	461.7	461.7	461.7

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