

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: P1026426

Luminaire Tested: S124RDIP-B575D1205UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026426
REPORT IS A COMBINATION OF REPORTS P999486 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D1205UB35-4F0-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

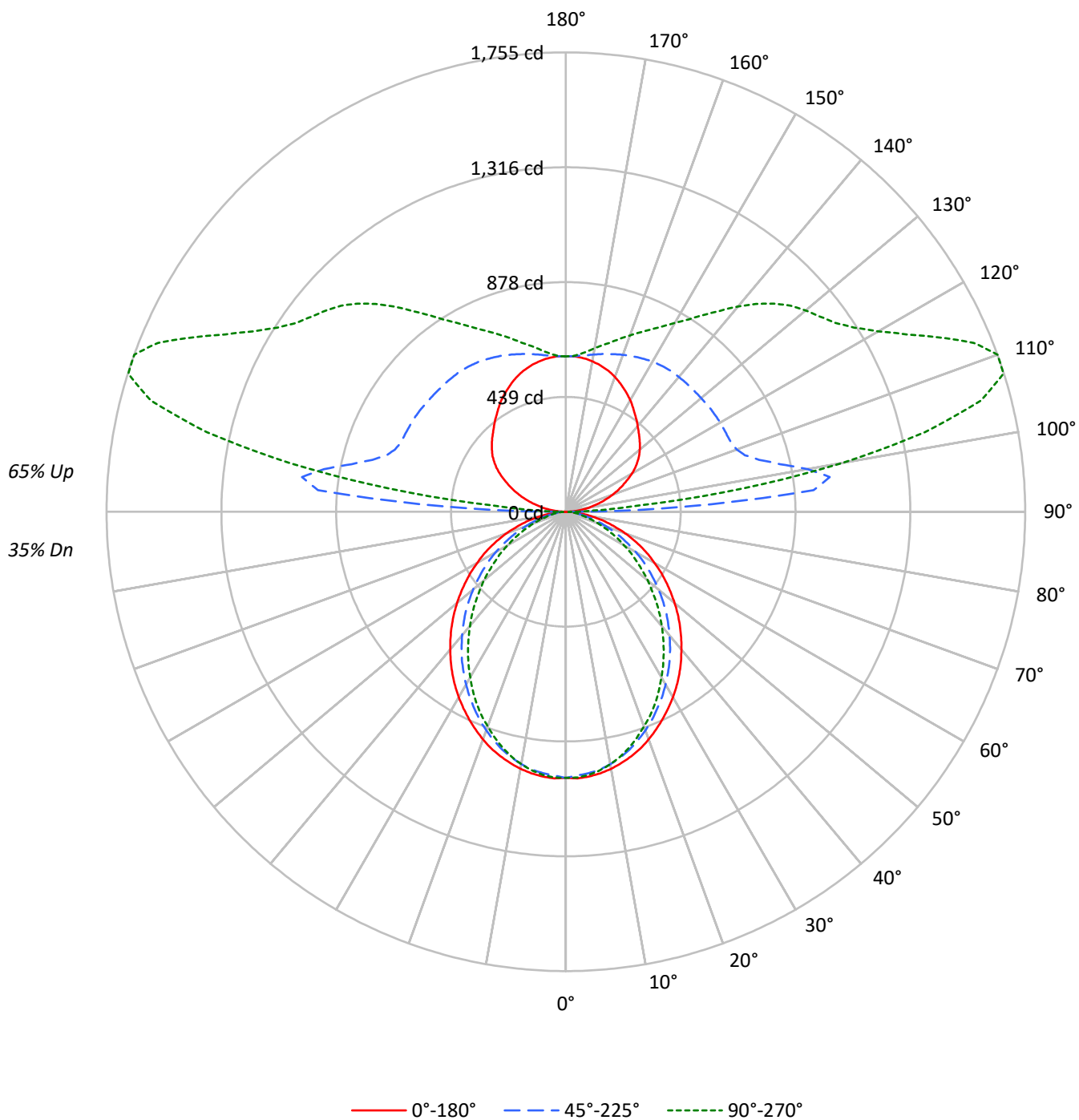
Lumens per Lamp: N/A
Luminaire Lumens: 6683.7 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35			
1	95	91	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30			
2	86	79	73	68	78	72	67	63	58	55	52	45	43	41	34	32	31	25			
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22			
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19			
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16			
6	61	49	41	36	55	45	38	33	37	32	28	29	25	23	22	20	18	15			
7	56	44	37	31	51	41	34	29	33	28	25	26	23	20	20	18	16	13			
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	18	16	14	12			
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	11			
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	13	12	10			

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	1.4
10°-20°	266.5	4.0
20°-30°	384.8	5.8
30°-40°	436.1	6.5
40°-50°	421.1	6.3
50°-60°	350.1	5.2
60°-70°	241.6	3.6
70°-80°	122.1	1.8
80°-90°	33.3	0.5
90°-100°	441.0	6.6
100°-110°	896.9	13.4
110°-120°	799.4	12.0
120°-130°	671.5	10.0
130°-140°	560.4	8.4
140°-150°	428.0	6.4
150°-160°	300.8	4.5
160°-170°	176.9	2.6
170°-180°	57.5	0.9
0°-30°	747.0	11.2
0°-40°	1183.1	17.7
0°-60°	1954.3	29.2
0°-90°	2351.3	35.2
90°-120°	2137.3	32.0
90°-150°	3797.1	56.8
90°-180°	4332.0	64.8
0°-180°	6683.7	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	9	21	23	24	5
95°	38	121	950	471	285	42
105°	136	198	765	1647	1641	145
115°	240	301	682	1311	1576	238
125°	335	398	679	1116	1257	298
135°	398	474	673	990	1124	307
145°	458	525	670	835	918	288
155°	521	563	651	737	769	240
165°	568	586	624	661	671	160
175°	592	594	598	606	604	56
180°	594	594	594	594	594	

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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°	1.2	9.3	21.0	23.3	24.5
92.5°	16.3	89.8	457.2	151.0	106.1
95°	38.5	121.3	950.5	470.6	284.6
97.5°	64.1	134.1	1017.0	961.0	683.4
100°	88.6	151.6	937.7	1329.6	1069.5
102.5°	112.0	172.6	838.6	1560.5	1405.4
105°	136.5	197.7	765.1	1647.4	1641.0
107.5°	163.3	223.4	717.3	1621.2	1752.9
110°	190.1	249.0	695.1	1527.8	1755.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.8	274.6	684.6	1413.6	1686.5
115°	240.3	301.4	682.3	1310.9	1575.7
117.5°	265.9	326.5	681.1	1230.4	1467.2
120°	291.6	351.0	681.1	1176.2	1378.6
122.5°	314.9	375.0	680.0	1140.6	1308.6
125°	334.7	397.7	678.8	1115.6	1257.3
127.5°	353.4	418.7	676.5	1091.6	1224.6
130°	368.5	439.1	675.3	1063.1	1196.6
132.5°	383.7	456.6	674.1	1029.2	1165.1
135°	397.7	473.6	673.0	990.2	1124.3
137.5°	411.7	488.1	673.0	948.2	1076.5
140°	426.9	501.5	671.8	907.4	1024.0
142.5°	443.2	513.8	671.8	869.5	968.0
145°	458.4	524.8	669.5	835.0	917.9
147.5°	475.8	535.4	666.0	806.5	871.2
150°	492.2	545.2	662.5	780.2	832.7
152.5°	507.3	554.6	656.6	758.1	797.7
155°	521.3	562.8	650.8	737.1	768.6
157.5°	535.3	570.3	645.0	717.2	741.8
160°	548.2	576.7	638.0	697.4	717.3
162.5°	559.8	582.0	631.0	678.2	693.9
165°	568.0	585.5	624.0	660.7	670.6
167.5°	577.3	588.4	617.0	645.6	652.0
170°	583.1	590.8	610.0	630.4	634.5
172.5°	589.0	592.4	603.0	617.0	617.0
175°	592.5	593.6	598.3	606.5	604.1
177.5°	594.8	593.6	594.8	598.9	594.8
180°	593.6	593.6	593.6	593.6	593.6

(END OF REPORT)