

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: P1025502

Luminaire Tested: S124DIP-B575D1035UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025502
REPORT IS A COMBINATION OF REPORTS P996057 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1035UB35-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

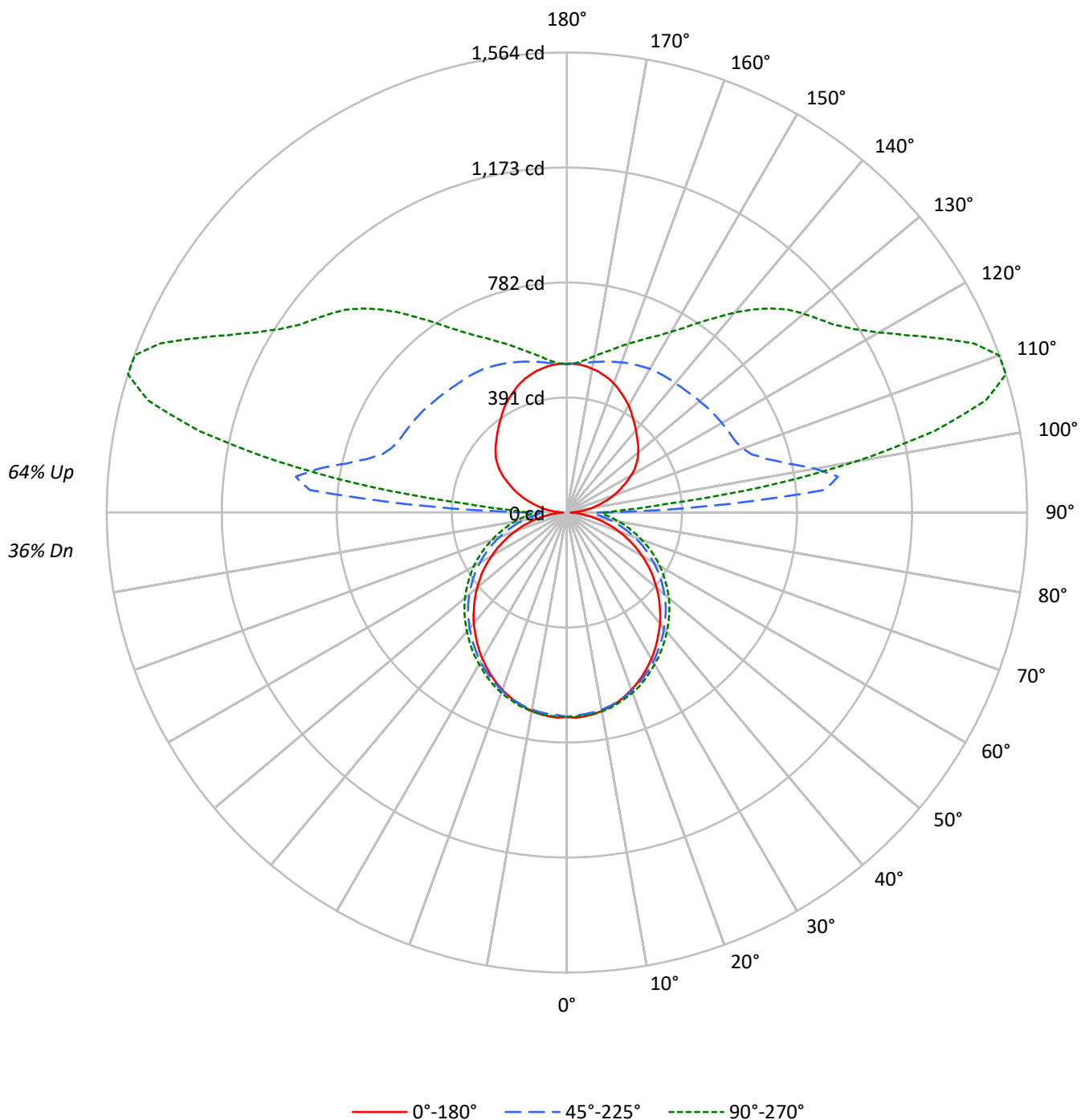
Lumens per Lamp: N/A
Luminaire Lumens: 6059.4 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43
1	94	89	85	82	85	81	77	74	65	63	60	51	49	47	37	36	35
2	85	78	71	66	77	70	65	60	57	53	49	44	41	39	32	31	29
3	78	68	60	55	70	62	55	50	50	45	41	39	35	33	28	26	24
4	71	60	52	46	64	54	47	42	44	39	35	34	31	28	25	23	21
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18
6	60	47	39	34	54	43	36	31	35	30	26	27	24	21	20	18	16
7	55	43	35	29	49	39	32	27	32	26	22	25	21	18	19	16	14
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	25	21	26	21	18	21	17	14	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5668	5668	5668
5°	5684	5521	5531
10°	5647	5412	5397
15°	5594	5290	5246
20°	5516	5157	5098
25°	5428	5012	4940
30°	5333	4868	4779
35°	5224	4720	4635
40°	5137	4578	4486
45°	5010	4445	4354
50°	4901	4294	4216
55°	4787	4148	4055
60°	4611	3967	3905
65°	4419	3772	3724
70°	4185	3547	3514
75°	3859	3300	3315
80°	3488	3046	3106
85°	3005	2793	2937

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5010 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.1
10°-20°	188.7	3.1
20°-30°	285.3	4.7
30°-40°	345.2	5.7
40°-50°	364.9	6.0
50°-60°	343.5	5.7
60°-70°	285.0	4.7
70°-80°	200.0	3.3
80°-90°	114.7	1.9
90°-100°	442.4	7.3
100°-110°	813.1	13.4
110°-120°	713.8	11.8
120°-130°	590.3	9.7
130°-140°	485.1	8.0
140°-150°	365.9	6.0
150°-160°	256.0	4.2
160°-170°	150.6	2.5
170°-180°	49.0	0.8
0°-30°	539.9	8.9
0°-40°	885.1	14.6
0°-60°	1593.5	26.3
0°-90°	2193.2	36.2
90°-120°	1969.3	32.5
90°-150°	3410.6	56.3
90°-180°	3866.0	63.8
0°-180°	6059.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	696	694	688	694	694	66
15°	667	668	666	673	672	188
25°	610	615	617	626	627	281
35°	534	543	551	562	564	334
45°	445	460	475	488	492	344
55°	349	365	388	404	409	311
65°	241	266	293	312	318	239
75°	134	163	195	217	224	142
85°	41	74	109	132	140	43
90°	14	52	95	120	127	11
95°	43	139	877	489	338	44
105°	123	191	703	1473	1474	132
115°	209	268	617	1169	1400	208
125°	288	341	600	986	1111	257
135°	340	405	580	862	981	263
145°	391	447	570	716	789	245
155°	444	479	554	627	654	205
165°	483	498	531	562	571	137
175°	504	505	509	516	514	48
180°	505	505	505	505	505	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.1	695.1	695.1	695.1	695.1
2.5°	698.2	695.9	689.7	695.1	694.4
5°	695.9	693.6	688.1	694.4	693.6
7.5°	691.2	689.7	685.0	692.0	691.2
10°	685.0	684.2	680.3	687.4	686.6
12.5°	676.5	676.5	674.1	680.3	680.3
15°	667.1	667.9	665.6	672.6	671.8
17.5°	654.7	657.0	656.2	663.2	662.4
20°	641.4	643.8	644.5	652.3	652.3
22.5°	626.6	629.7	631.3	639.1	640.6
25°	610.3	615.0	617.3	625.9	626.6
27.5°	592.4	599.4	602.5	610.3	611.1
30°	574.5	580.7	586.2	594.7	596.3
32.5°	555.0	562.8	569.0	579.1	580.7
35°	534.0	543.3	551.1	562.0	564.4
37.5°	513.0	523.9	533.2	544.1	546.5
40°	492.7	502.9	513.8	525.4	528.6
42.5°	469.4	481.1	494.3	507.5	509.9
45°	445.3	460.1	474.8	488.1	492.0
47.5°	422.7	437.5	454.6	467.8	472.5
50°	397.8	414.9	432.0	447.6	452.3
52.5°	372.9	390.0	410.2	425.8	430.5
55°	348.7	365.1	388.4	404.0	408.7
57.5°	321.5	341.7	364.3	383.0	386.9
60°	295.0	315.3	341.0	358.9	365.1
62.5°	269.3	291.9	317.6	335.5	341.7
65°	241.3	266.2	292.7	312.1	318.4
67.5°	214.8	241.3	269.3	288.8	295.0
70°	187.6	214.1	243.6	264.7	270.1
72.5°	161.1	188.4	220.3	240.5	246.8
75°	133.9	162.7	195.4	217.2	224.2
77.5°	108.2	138.6	172.8	194.6	202.4
80°	84.8	116.0	150.2	173.6	179.8
82.5°	61.5	94.2	128.4	152.6	159.6
85°	41.3	74.0	109.0	132.3	140.1
87.5°	25.7	57.6	91.9	114.4	121.4
90°	13.5	51.5	95.0	119.5	126.7
92.5°	25.6	115.3	461.5	222.8	190.7
95°	42.9	139.0	876.7	489.2	337.9
97.5°	63.9	146.0	929.4	902.1	672.8
100°	84.0	157.9	857.3	1211.9	995.9
102.5°	103.9	172.6	769.0	1403.7	1277.9
105°	123.1	190.9	702.6	1473.0	1473.8
107.5°	146.0	210.3	658.0	1446.7	1564.4
110°	168.0	229.0	636.0	1362.7	1562.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.0	248.6	623.2	1260.7	1499.2
115°	209.2	268.3	617.3	1169.4	1400.3
117.5°	231.0	287.3	612.4	1096.3	1304.1
120°	252.1	305.0	608.5	1045.6	1223.9
122.5°	271.9	323.0	603.6	1011.4	1159.7
125°	288.0	340.8	599.5	986.1	1111.4
127.5°	303.9	358.7	593.7	961.0	1079.7
130°	316.0	375.3	588.8	932.8	1051.2
132.5°	328.9	390.2	584.7	900.1	1020.5
135°	340.1	404.6	579.8	862.3	981.0
137.5°	352.0	416.2	576.7	822.6	935.7
140°	364.9	427.6	573.4	784.0	887.2
142.5°	378.0	438.1	571.8	748.6	835.6
145°	390.9	446.7	569.8	715.5	789.0
147.5°	405.8	455.6	566.8	687.2	745.4
150°	419.7	464.0	563.8	664.1	708.8
152.5°	431.8	472.0	558.9	645.2	679.0
155°	443.7	479.0	553.9	627.3	654.2
157.5°	455.6	485.4	548.9	610.5	631.3
160°	466.6	490.8	543.0	593.6	610.5
162.5°	476.5	495.4	537.0	577.2	590.6
165°	483.4	498.3	531.1	562.3	570.8
167.5°	491.4	500.8	525.1	549.4	554.9
170°	496.3	502.8	519.2	536.6	540.0
172.5°	501.3	504.3	513.2	525.1	525.1
175°	504.3	505.3	509.2	516.2	514.2
177.5°	506.3	505.3	506.3	509.7	506.3
180°	505.3	505.3	505.3	505.3	505.3

(END OF REPORT)