

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: P1025547

Luminaire Tested: S124DIP-B575D1205UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025547
REPORT IS A COMBINATION OF REPORTS P996117 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1205UB35-4F0-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

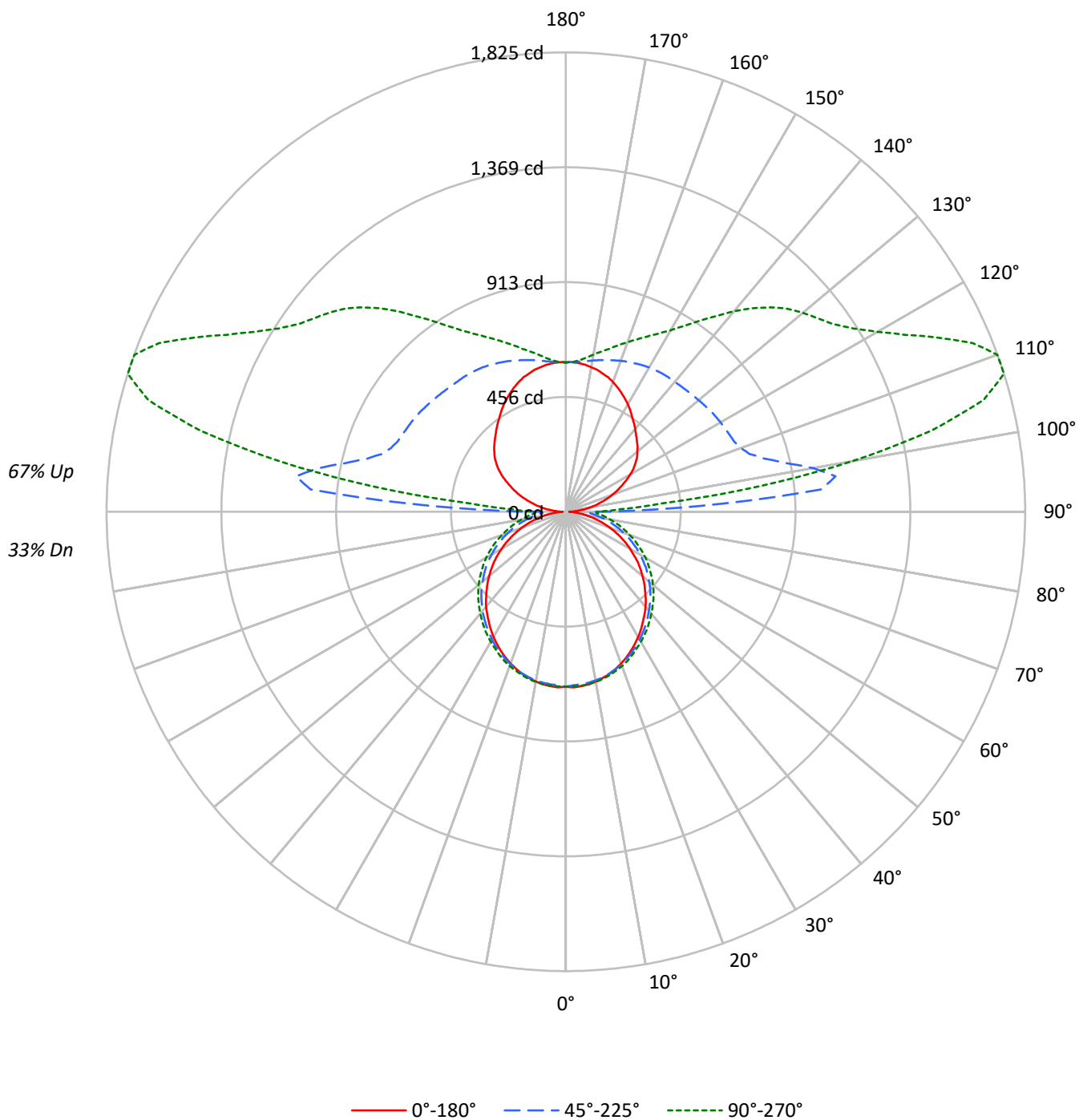
Lumens per Lamp: N/A
Luminaire Lumens: 6704.7 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	40	40	33
1	93	89	85	81	84	80	77	73	64	61	59	48	47	45	34	34	33	33	33	26
2	85	77	71	66	76	69	64	60	55	51	48	42	40	37	30	28	27	27	27	21
3	77	67	60	54	69	61	55	49	48	44	40	37	34	31	26	24	23	23	23	18
4	70	59	52	46	63	54	47	42	43	38	34	33	29	26	23	21	19	19	19	15
5	64	53	45	39	58	48	41	35	38	33	29	29	26	23	21	19	17	17	17	13
6	59	47	39	33	53	43	36	31	34	29	25	26	23	20	19	16	14	14	14	11
7	54	42	34	29	49	38	31	27	31	26	22	24	20	17	17	15	13	13	13	10
8	50	38	31	25	45	35	28	23	28	23	19	22	18	15	16	13	11	11	11	9
9	47	35	27	22	42	32	25	21	26	21	17	20	16	14	14	12	10	10	10	8
10	44	32	25	20	39	29	23	18	23	19	15	18	15	12	13	11	9	9	9	7

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	1.0
10°-20°	188.7	2.8
20°-30°	285.3	4.3
30°-40°	345.2	5.1
40°-50°	364.9	5.4
50°-60°	343.5	5.1
60°-70°	285.0	4.3
70°-80°	200.0	3.0
80°-90°	115.0	1.7
90°-100°	508.1	7.6
100°-110°	946.6	14.1
110°-120°	832.8	12.4
120°-130°	690.3	10.3
130°-140°	568.5	8.5
140°-150°	429.6	6.4
150°-160°	300.8	4.5
160°-170°	176.9	2.6
170°-180°	57.5	0.9
0°-30°	539.9	8.1
0°-40°	885.1	13.2
0°-60°	1593.5	23.8
0°-90°	2193.6	32.7
90°-120°	2287.5	34.1
90°-150°	3975.8	59.3
90°-180°	4511.0	67.3
0°-180°	6704.7	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	53	98	123	130	11
95°	49	157	1018	559	380	50
105°	144	220	816	1718	1718	153
115°	245	313	719	1365	1635	243
125°	338	400	701	1152	1299	301
135°	399	475	680	1010	1148	309
145°	459	525	670	840	926	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°	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°	13.7	52.9	98.1	122.9	130.4
92.5°	28.0	128.7	529.6	245.2	206.5
95°	48.6	157.1	1018.2	559.3	380.3
97.5°	73.4	166.0	1080.8	1045.1	774.5
100°	97.2	180.5	996.9	1409.8	1155.1
102.5°	120.6	198.3	893.9	1636.0	1487.1
105°	143.5	220.3	816.5	1718.2	1718.1
107.5°	170.3	243.6	764.8	1688.0	1825.3
110°	196.3	266.1	739.5	1590.1	1823.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.2	289.4	725.1	1471.2	1750.3
115°	245.0	313.2	718.9	1364.6	1634.9
117.5°	270.6	335.8	713.8	1279.4	1522.5
120°	295.5	357.2	709.9	1220.6	1429.2
122.5°	318.8	378.8	704.9	1181.1	1354.5
125°	337.8	400.0	700.6	1152.1	1298.6
127.5°	356.5	421.0	694.4	1123.6	1262.0
130°	370.8	440.7	689.3	1091.1	1229.3
132.5°	386.0	458.2	685.0	1053.4	1193.9
135°	399.3	475.2	680.0	1009.6	1148.4
137.5°	413.3	488.9	676.9	963.8	1096.0
140°	428.5	502.3	673.4	919.1	1039.6
142.5°	444.0	514.6	671.8	878.1	979.7
145°	459.2	524.8	669.5	839.8	925.7
147.5°	476.6	535.4	666.0	807.3	875.1
150°	493.0	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)