

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: P1025493

Luminaire Tested: S124DIP-B575D1035UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025493
REPORT IS A COMBINATION OF REPORTS P996048 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1035UB30-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

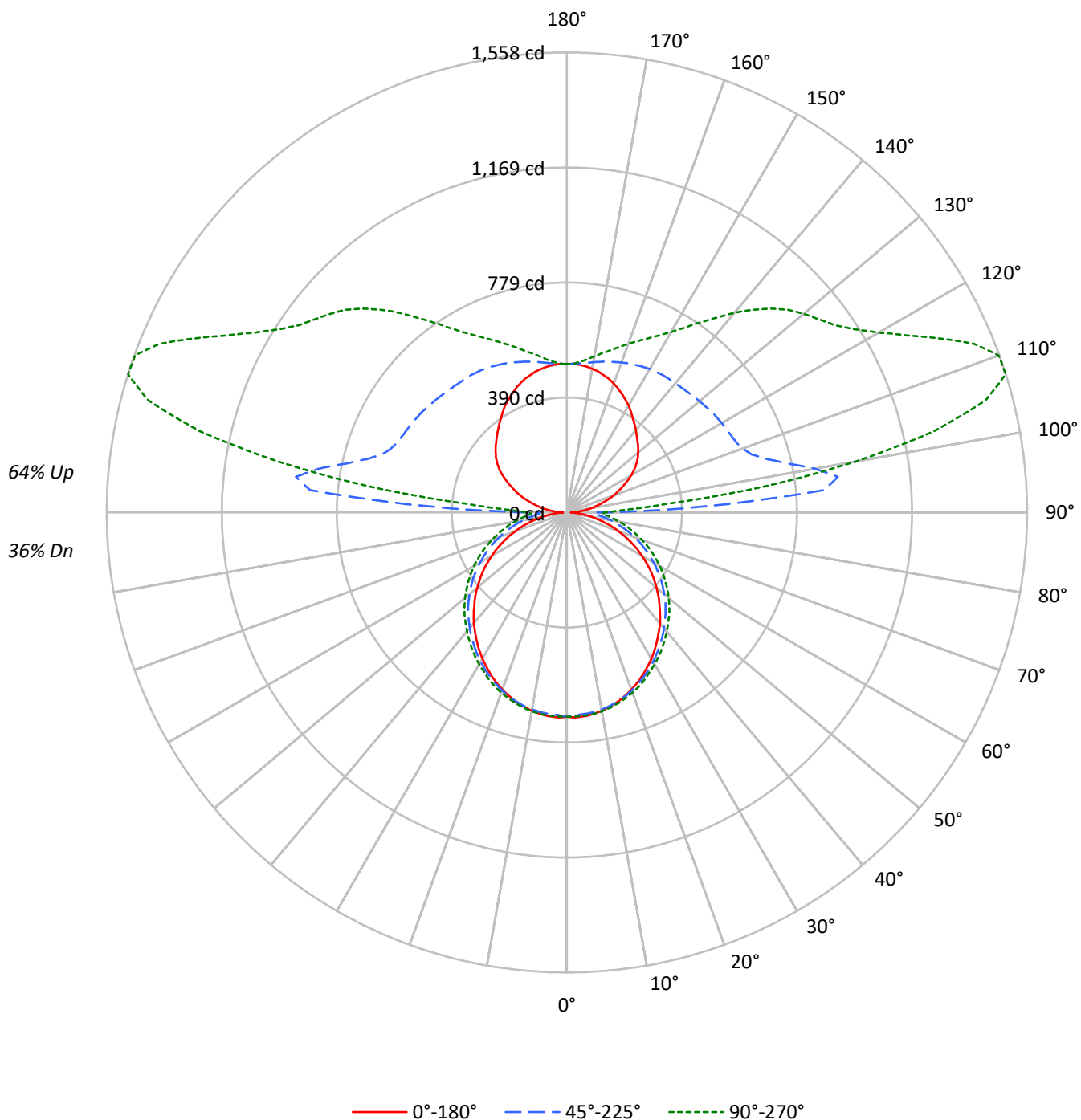
Lumens per Lamp: N/A
Luminaire Lumens: 6032.3 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	5642	5642	5642
5°	5658	5495	5505
10°	5621	5387	5372
15°	5568	5266	5221
20°	5490	5133	5075
25°	5403	4988	4917
30°	5307	4845	4756
35°	5200	4698	4613
40°	5114	4557	4465
45°	4986	4424	4334
50°	4877	4274	4196
55°	4765	4129	4037
60°	4591	3949	3887
65°	4399	3754	3706
70°	4165	3531	3498
75°	3841	3285	3299
80°	3475	3032	3092
85°	2991	2780	2924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4986 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.1
10°-20°	187.8	3.1
20°-30°	284.0	4.7
30°-40°	343.6	5.7
40°-50°	363.2	6.0
50°-60°	341.9	5.7
60°-70°	283.7	4.7
70°-80°	199.1	3.3
80°-90°	114.2	1.9
90°-100°	440.5	7.3
100°-110°	809.5	13.4
110°-120°	710.6	11.8
120°-130°	587.8	9.7
130°-140°	483.0	8.0
140°-150°	364.3	6.0
150°-160°	254.9	4.2
160°-170°	149.9	2.5
170°-180°	48.8	0.8
0°-30°	537.4	8.9
0°-40°	881.0	14.6
0°-60°	1586.1	26.3
0°-90°	2183.0	36.2
90°-120°	1960.7	32.5
90°-150°	3395.7	56.3
90°-180°	3849.0	63.8
0°-180°	6032.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	693	690	685	691	690	66
15°	664	665	662	669	669	187
25°	608	612	614	623	624	280
35°	532	541	549	559	562	333
45°	443	458	473	486	490	343
55°	347	363	387	402	407	309
65°	240	265	291	311	317	238
75°	133	162	194	216	223	142
85°	41	74	108	132	140	43
90°	13	51	94	119	126	11
95°	43	138	873	487	336	44
105°	123	190	700	1467	1467	131
115°	208	267	615	1164	1394	207
125°	287	339	597	982	1107	256
135°	338	403	577	858	977	262
145°	389	445	567	712	786	244
155°	442	477	552	625	651	204
165°	481	496	529	560	568	136
175°	502	503	507	514	512	48
180°	503	503	503	503	503	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.9	691.9	691.9	691.9	691.9
2.5°	695.0	692.7	686.5	691.9	691.1
5°	692.7	690.4	684.9	691.1	690.4
7.5°	688.0	686.5	681.8	688.8	688.0
10°	681.8	681.1	677.2	684.2	683.4
12.5°	673.3	673.3	671.0	677.2	677.2
15°	664.0	664.8	662.5	669.4	668.7
17.5°	651.6	653.9	653.2	660.1	659.4
20°	638.4	640.8	641.5	649.3	649.3
22.5°	623.7	626.8	628.4	636.1	637.7
25°	607.5	612.1	614.4	623.0	623.7
27.5°	589.6	596.6	599.7	607.5	608.2
30°	571.8	578.0	583.4	592.0	593.5
32.5°	552.4	560.2	566.4	576.5	578.0
35°	531.5	540.8	548.6	559.4	561.7
37.5°	510.6	521.4	530.7	541.6	543.9
40°	490.5	500.5	511.4	523.0	526.1
42.5°	467.2	478.8	492.0	505.2	507.5
45°	443.2	457.9	472.6	485.8	489.7
47.5°	420.7	435.4	452.5	465.7	470.3
50°	395.9	413.0	430.0	445.5	450.2
52.5°	371.1	388.2	408.3	423.8	428.5
55°	347.1	363.4	386.6	402.1	406.8
57.5°	320.0	340.1	362.6	381.2	385.1
60°	293.7	313.8	339.4	357.2	363.4
62.5°	268.1	290.6	316.1	333.9	340.1
65°	240.2	265.0	291.3	310.7	316.9
67.5°	213.8	240.2	268.1	287.5	293.7
70°	186.7	213.1	242.5	263.4	268.9
72.5°	160.4	187.5	219.3	239.4	245.6
75°	133.3	161.9	194.5	216.2	223.1
77.5°	107.7	137.9	172.0	193.7	201.5
80°	84.5	115.4	149.5	172.8	179.0
82.5°	61.2	93.8	127.8	151.9	158.8
85°	41.1	73.6	108.5	131.7	139.5
87.5°	25.6	57.3	91.4	113.9	120.9
90°	13.4	51.3	94.5	119.0	126.2
92.5°	25.4	114.8	459.5	221.8	189.9
95°	42.7	138.4	872.9	487.1	336.5
97.5°	63.7	145.5	925.3	898.2	669.9
100°	83.6	157.2	853.5	1206.6	991.5
102.5°	103.4	171.9	765.6	1397.6	1272.4
105°	122.6	190.0	699.5	1466.6	1467.3
107.5°	145.4	209.4	655.1	1440.4	1557.6
110°	167.3	228.0	633.3	1356.8	1555.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.2	247.4	620.5	1255.2	1492.7
115°	208.2	267.0	614.6	1164.4	1394.2
117.5°	229.9	286.0	609.7	1091.5	1298.4
120°	251.0	303.7	605.9	1041.0	1218.6
122.5°	270.8	321.6	601.0	1007.0	1154.6
125°	286.8	339.3	596.9	981.8	1106.6
127.5°	302.6	357.2	591.0	956.9	1075.0
130°	314.6	373.6	586.2	928.8	1046.6
132.5°	327.5	388.5	582.1	896.2	1016.1
135°	338.5	402.8	577.3	858.5	976.8
137.5°	350.4	414.4	574.2	819.0	931.7
140°	363.2	425.8	570.8	780.6	883.3
142.5°	376.4	436.2	569.3	745.3	831.9
145°	389.2	444.8	567.3	712.2	785.5
147.5°	404.1	453.6	564.4	684.2	742.2
150°	417.9	462.0	561.4	661.2	705.7
152.5°	429.9	470.0	556.4	642.4	676.0
155°	441.8	476.9	551.5	624.7	651.3
157.5°	453.7	483.3	546.6	607.8	628.6
160°	464.5	488.8	540.6	591.0	607.8
162.5°	474.4	493.2	534.7	574.8	588.1
165°	481.3	496.2	528.8	559.9	568.3
167.5°	489.2	498.6	522.8	547.0	552.5
170°	494.2	500.6	516.9	534.2	537.7
172.5°	499.1	502.1	511.0	522.8	522.8
175°	502.1	503.1	507.0	513.9	512.0
177.5°	504.1	503.1	504.1	507.5	504.1
180°	503.1	503.1	503.1	503.1	503.1

(END OF REPORT)