

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: P1025673

Luminaire Tested: S124DIP-B575D810UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025673
REPORT IS A COMBINATION OF REPORTS P996288 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D810UB30-4F0-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

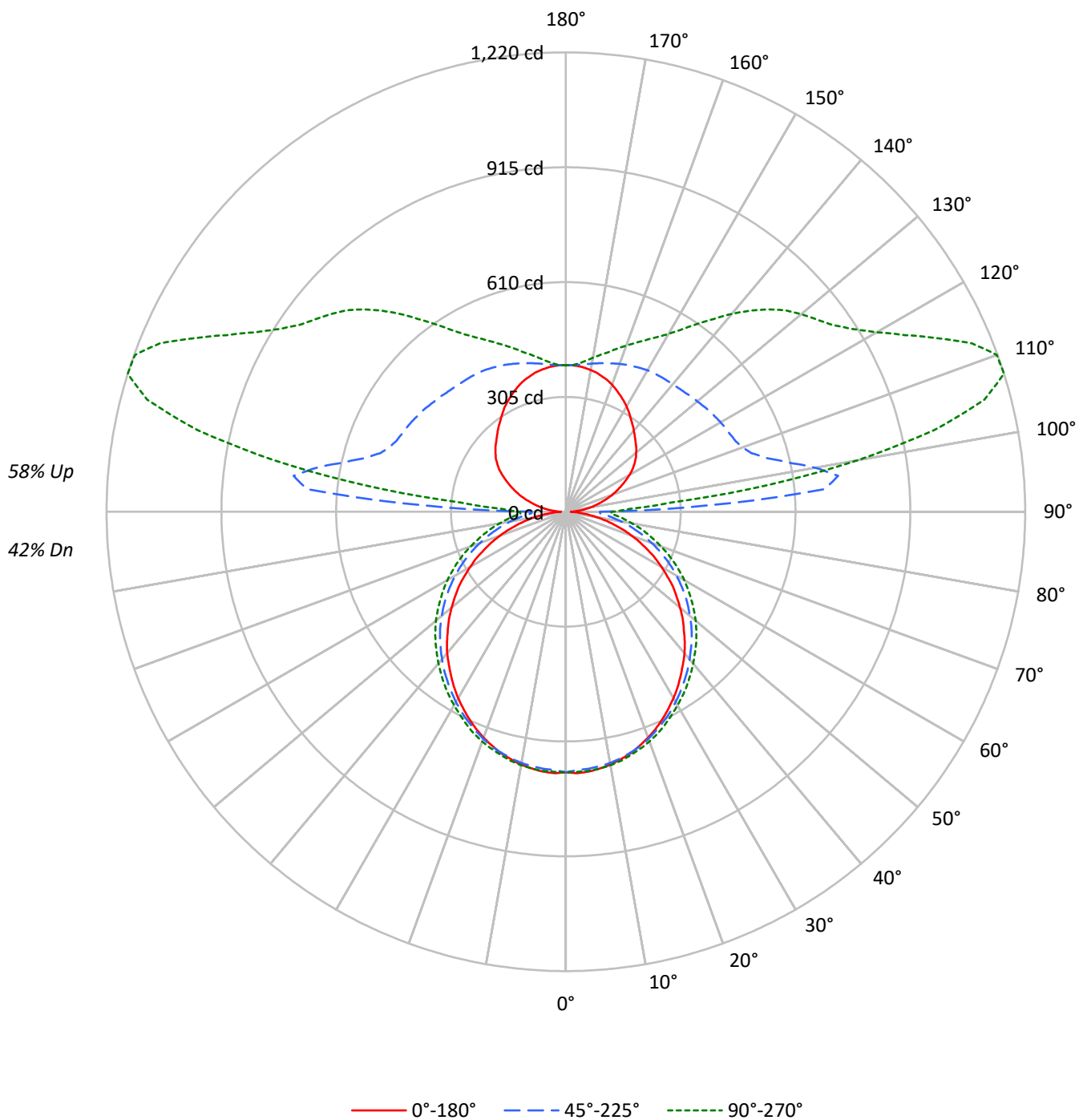
Lumens per Lamp: N/A
Luminaire Lumens: 5197.6 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	95	90	86	83	87	83	79	76	68	65	63	54	52	51	42	41	39
2	86	79	72	67	78	72	66	61	59	55	51	47	44	42	36	34	33
3	78	69	61	55	71	63	56	51	52	47	43	41	38	35	32	29	27
4	72	61	52	46	65	55	48	43	46	40	36	37	33	30	28	25	23
5	66	54	45	39	59	49	42	37	41	35	31	33	29	25	25	22	20
6	60	48	40	34	55	44	37	32	37	31	27	29	25	22	23	20	18
7	56	43	35	30	51	40	33	28	33	27	23	27	23	19	21	18	15
8	52	39	31	26	47	36	29	24	30	25	21	24	20	17	19	16	14
9	48	36	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	16	13	11

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	1.3
10°-20°	187.8	3.6
20°-30°	284.0	5.5
30°-40°	343.6	6.6
40°-50°	363.2	7.0
50°-60°	341.9	6.6
60°-70°	283.7	5.5
70°-80°	199.1	3.8
80°-90°	113.7	2.2
90°-100°	355.6	6.8
100°-110°	636.8	12.3
110°-120°	556.7	10.7
120°-130°	458.5	8.8
130°-140°	375.0	7.2
140°-150°	281.8	5.4
150°-160°	197.0	3.8
160°-170°	115.9	2.2
170°-180°	37.7	0.7
0°-30°	537.4	10.3
0°-40°	881.0	17.0
0°-60°	1586.1	30.5
0°-90°	2182.6	42.0
90°-120°	1549.2	29.8
90°-150°	2664.5	51.3
90°-180°	3015.0	58.0
0°-180°	5197.6	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	50	90	114	121	10
95°	35	115	690	396	282	36
105°	96	152	552	1149	1151	103
115°	162	209	483	912	1091	161
125°	222	263	466	767	864	198
135°	262	312	448	668	760	203
145°	301	344	438	552	609	189
155°	341	369	426	483	503	157
165°	372	383	409	433	439	105
175°	388	389	392	397	396	37
180°	389	389	389	389	389	

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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°	13.2	49.5	90.4	114.5	121.4
92.5°	22.3	97.5	371.5	192.8	169.5
95°	35.3	115.0	689.9	396.4	281.7
97.5°	51.3	119.6	729.5	713.1	538.3
100°	66.5	128.0	673.0	950.6	785.6
102.5°	81.8	138.6	604.2	1097.1	1001.8
105°	96.4	152.0	552.1	1149.4	1151.3
107.5°	113.9	166.4	517.0	1128.2	1220.1
110°	130.7	180.1	499.4	1062.6	1217.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.7	194.6	488.6	983.0	1167.9
115°	161.9	209.0	483.2	912.0	1090.8
117.5°	178.7	223.2	478.5	854.6	1015.8
120°	194.8	236.1	474.7	814.5	953.2
122.5°	210.1	249.4	470.1	787.3	902.7
125°	222.3	262.8	466.2	767.0	864.5
127.5°	234.5	276.5	460.8	746.7	839.2
130°	243.7	289.0	456.1	724.0	816.1
132.5°	253.6	300.5	452.3	698.0	791.7
135°	261.9	311.6	447.7	667.8	760.3
137.5°	271.1	320.4	444.6	636.4	724.4
140°	281.0	329.3	441.4	605.8	686.1
142.5°	291.0	337.2	439.9	577.9	645.5
145°	301.0	343.7	438.4	551.5	608.8
147.5°	312.4	350.5	436.1	528.9	574.4
150°	323.1	357.0	433.8	511.0	545.3
152.5°	332.2	363.2	430.0	496.4	522.4
155°	341.4	368.6	426.2	482.7	503.3
157.5°	350.6	373.5	422.4	469.7	485.8
160°	359.0	377.7	417.8	456.8	469.7
162.5°	366.6	381.2	413.2	444.2	454.4
165°	372.0	383.4	408.6	432.7	439.2
167.5°	378.1	385.3	404.0	422.8	427.0
170°	381.9	386.8	399.5	412.8	415.5
172.5°	385.7	388.0	394.9	404.0	404.0
175°	388.0	388.8	391.8	397.2	395.6
177.5°	389.5	388.8	389.5	392.2	389.5
180°	388.8	388.8	388.8	388.8	388.8

(END OF REPORT)