

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: P1009083

Luminaire Tested: S122DIP-B485D530UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009083
REPORT IS A COMBINATION OF REPORTS P984246 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D530UB27-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

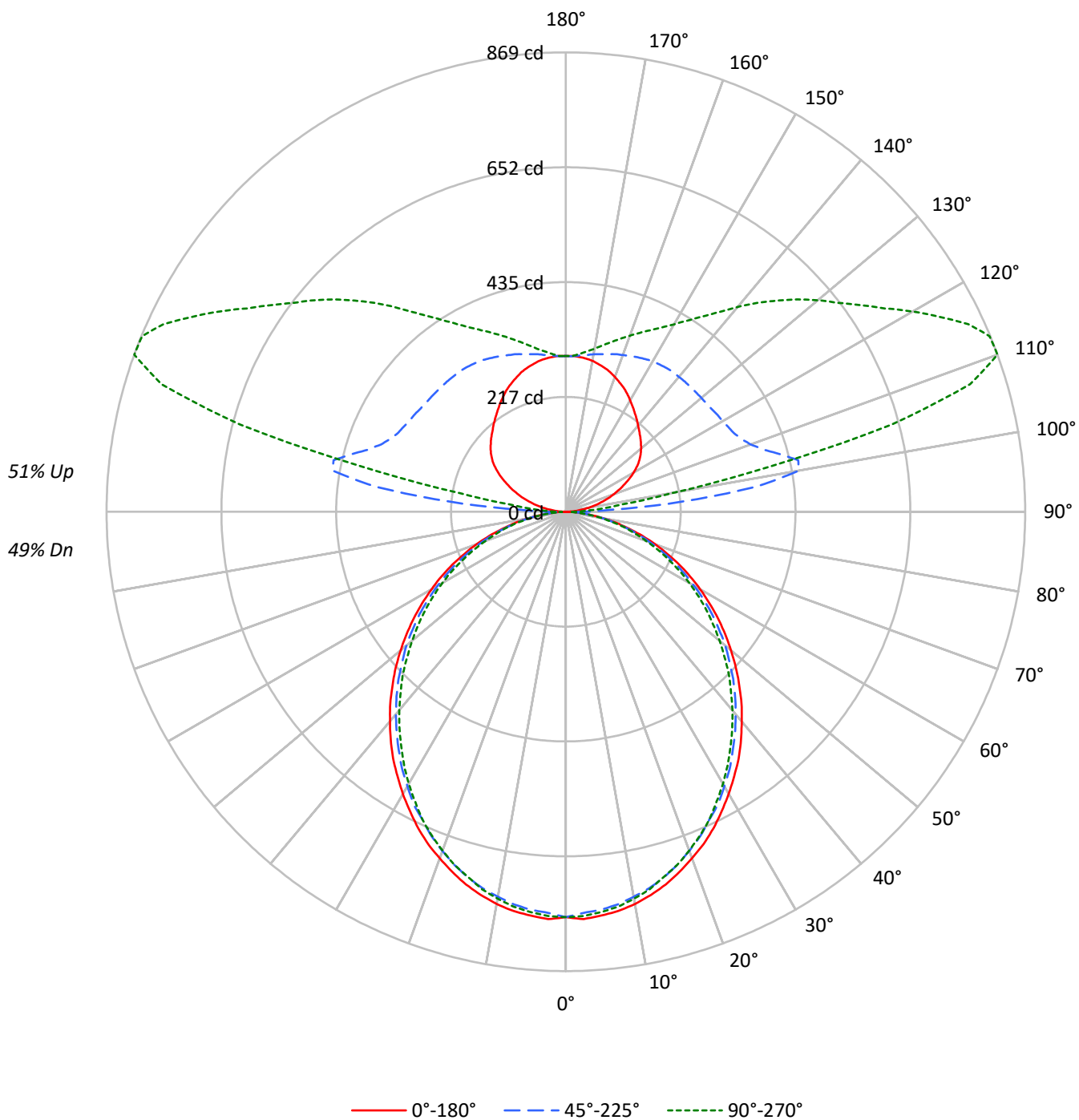
Lumens per Lamp: N/A
Luminaire Lumens: 4006.4 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	49	47	46
2	89	81	75	70	82	75	70	65	63	60	56	53	50	47	43	41	39
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	35	33
4	74	63	55	49	68	59	52	46	50	44	40	42	38	34	34	31	29
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	27	25
6	63	51	42	37	57	47	40	35	40	34	30	34	29	26	28	25	22
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12139	12139	12139
5°	12159	11571	11488
10°	12060	11044	10825
15°	11883	10512	10125
20°	11644	9934	9464
25°	11407	9330	8802
30°	11106	8764	8109
35°	10825	8165	7428
40°	10476	7574	6783
45°	10129	6989	6152
50°	9752	6394	5497
55°	9353	5755	4877
60°	8906	5066	4232
65°	8415	4365	3554
70°	7791	3597	2869
75°	6931	2773	2216
80°	5884	1884	1425
85°	4266	878	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10129 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.8
10°-20°	203.1	5.1
20°-30°	298.4	7.4
30°-40°	346.6	8.7
40°-50°	346.2	8.6
50°-60°	301.9	7.5
60°-70°	223.1	5.6
70°-80°	126.3	3.2
80°-90°	35.2	0.9
90°-100°	119.4	3.0
100°-110°	403.6	10.1
110°-120°	424.3	10.6
120°-130°	348.9	8.7
130°-140°	280.4	7.0
140°-150°	211.8	5.3
150°-160°	148.9	3.7
160°-170°	87.7	2.2
170°-180°	28.5	0.7
0°-30°	573.7	14.3
0°-40°	920.3	23.0
0°-60°	1568.3	39.1
0°-90°	1952.9	48.7
90°-120°	947.3	23.6
90°-150°	1788.4	44.6
90°-180°	2053.0	51.2
0°-180°	4006.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	764	756	762	760	73
15°	730	726	716	719	715	206
25°	661	655	642	644	642	304
35°	570	563	551	546	543	356
45°	464	459	448	440	436	358
55°	351	347	338	329	325	314
65°	237	232	225	218	215	234
75°	124	122	119	114	116	132
85°	30	30	29	26	26	34
90°	1	8	19	18	19	3
95°	20	49	222	84	65	20
105°	69	104	420	750	638	73
115°	122	154	351	725	840	121
125°	170	201	338	587	681	151
135°	199	238	334	493	565	154
145°	228	262	332	412	451	143
155°	259	280	322	364	379	119
165°	282	291	309	327	332	80
175°	294	294	297	300	300	28
180°	294	294	294	294	294	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.9	766.9	766.9	766.9	766.9
2.5°	771.3	767.6	759.5	766.9	765.4
5°	766.9	763.9	755.8	761.7	760.2
7.5°	761.7	757.3	749.2	755.1	753.6
10°	753.6	748.4	739.6	745.5	743.3
12.5°	742.5	738.1	729.2	732.9	731.5
15°	730.0	725.6	716.0	718.9	715.2
17.5°	714.5	710.1	700.5	704.2	700.5
20°	697.5	693.1	682.8	685.0	682.1
22.5°	680.6	673.9	664.4	664.4	662.9
25°	660.7	654.8	642.2	643.7	642.2
27.5°	638.6	633.4	623.8	621.6	617.9
30°	616.4	610.5	599.5	597.3	594.3
32.5°	592.8	588.4	576.6	572.2	569.2
35°	570.0	562.6	550.8	546.4	542.7
37.5°	544.2	537.5	525.7	520.6	516.9
40°	517.6	511.7	499.9	493.3	490.3
42.5°	491.8	485.9	474.1	466.7	462.3
45°	463.8	458.6	447.6	439.5	436.5
47.5°	436.5	431.4	419.6	411.4	407.0
50°	407.8	404.1	393.8	383.4	379.7
52.5°	379.7	374.6	365.0	356.9	351.7
55°	351.0	346.6	337.7	328.9	325.2
57.5°	322.2	318.5	309.0	300.1	297.2
60°	293.5	290.5	280.2	272.1	269.9
62.5°	265.4	260.3	252.9	245.5	242.6
65°	236.7	232.3	224.9	218.3	214.6
67.5°	207.2	203.5	196.9	191.7	188.8
70°	179.9	177.0	170.3	165.2	162.2
72.5°	151.9	148.9	145.3	140.1	137.9
75°	123.9	122.4	118.7	114.3	115.8
77.5°	98.8	95.9	94.4	92.2	90.0
80°	73.7	73.0	71.5	69.3	67.8
82.5°	50.1	50.1	49.4	46.5	46.5
85°	30.2	29.5	28.8	26.5	25.8
87.5°	13.3	11.8	10.3	8.1	7.4
90°	0.6	7.6	19.3	18.4	18.7
92.5°	8.5	26.9	87.2	40.2	34.6
95°	19.8	48.7	222.0	83.8	64.6
97.5°	29.5	64.2	361.9	168.2	108.2
100°	43.6	78.8	447.5	335.0	202.8
102.5°	56.6	91.8	450.3	566.4	395.3
105°	69.1	104.2	419.7	750.2	638.3
107.5°	82.7	116.6	391.4	816.8	802.0
110°	96.3	129.4	372.1	806.0	868.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	108.7	141.6	359.7	769.4	867.7
115°	121.8	153.8	351.2	724.7	840.0
117.5°	135.4	166.0	346.6	682.0	798.1
120°	147.8	177.9	342.7	643.7	757.8
122.5°	159.7	190.0	340.4	614.0	715.9
125°	169.9	201.0	337.6	587.0	681.4
127.5°	178.4	211.6	335.9	564.2	649.1
130°	185.8	220.9	334.7	540.9	622.5
132.5°	192.6	230.0	334.2	516.8	594.7
135°	199.4	237.9	333.6	493.4	564.7
137.5°	205.6	244.6	333.6	469.6	535.8
140°	213.0	251.0	333.0	448.6	505.8
142.5°	220.3	256.0	333.0	428.5	475.8
145°	227.7	261.6	331.9	412.0	450.9
147.5°	235.6	266.2	330.2	397.6	428.8
150°	243.6	270.7	328.5	385.2	409.5
152.5°	251.5	275.2	325.7	374.6	393.1
155°	258.8	279.6	322.3	364.5	378.9
157.5°	265.1	282.9	318.9	354.8	366.5
160°	271.3	286.3	315.5	345.2	354.6
162.5°	277.5	288.8	312.7	336.2	343.2
165°	282.1	290.6	308.7	327.4	332.5
167.5°	286.0	292.2	305.3	319.5	322.3
170°	290.0	293.2	302.5	312.1	313.2
172.5°	292.3	294.0	299.1	305.6	305.9
175°	294.0	294.2	296.8	300.5	299.6
177.5°	295.1	294.5	294.5	296.8	295.1
180°	294.5	294.5	294.5	294.5	294.5

(END OF REPORT)