

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: P1009179

Luminaire Tested: S122DIP-B485D925UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009179
REPORT IS A COMBINATION OF REPORTS P984387 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D925UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

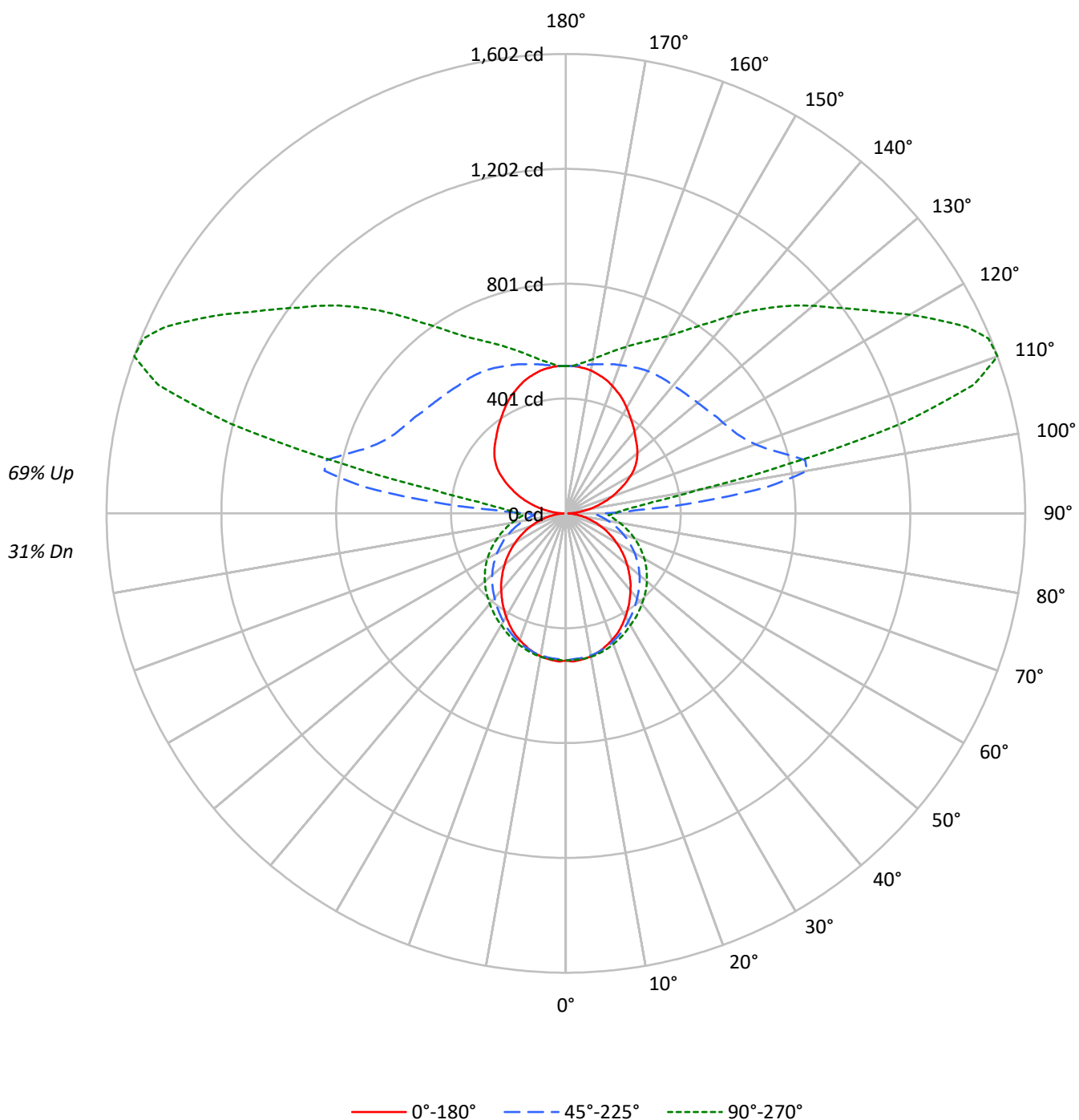
Lumens per Lamp: N/A
Luminaire Lumens: 5543.1 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	93	88	84	80	83	79	76	72	62	60	58	47	46	44	33	32	31
2	84	76	70	65	75	69	63	59	54	50	47	41	38	36	28	27	25
3	76	67	59	53	68	60	54	48	47	43	39	36	33	30	25	23	21
4	70	59	51	45	62	53	46	41	42	37	33	32	28	25	22	20	18
5	64	52	44	38	57	47	40	35	37	32	28	28	25	22	20	17	15
6	59	46	38	33	52	42	35	30	33	28	24	25	22	19	18	15	13
7	54	42	34	28	48	38	31	26	30	25	21	23	19	16	16	14	12
8	50	38	30	25	45	34	27	23	27	22	19	21	17	15	15	12	11
9	46	34	27	22	42	31	25	20	25	20	17	19	16	13	14	11	9
10	43	31	24	19	39	28	22	18	23	18	15	18	14	12	13	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8122	8122	8122
5°	8159	7775	7733
10°	8105	7506	7397
15°	7990	7228	7054
20°	7846	6935	6728
25°	7703	6655	6432
30°	7505	6371	6139
35°	7302	6097	5924
40°	7090	5859	5711
45°	6886	5643	5524
50°	6669	5445	5341
55°	6440	5234	5153
60°	6160	5015	4957
65°	5869	4763	4730
70°	5539	4492	4486
75°	5119	4221	4257
80°	4455	3940	4018
85°	3786	3674	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	0.9
10°-20°	139.5	2.5
20°-30°	211.4	3.8
30°-40°	257.4	4.6
40°-50°	277.0	5.0
50°-60°	269.0	4.9
60°-70°	234.9	4.2
70°-80°	180.8	3.3
80°-90°	124.4	2.2
90°-100°	291.8	5.3
100°-110°	765.1	13.8
110°-120°	780.4	14.1
120°-130°	631.0	11.4
130°-140°	498.5	9.0
140°-150°	371.0	6.7
150°-160°	259.7	4.7
160°-170°	152.9	2.8
170°-180°	49.7	0.9
0°-30°	399.6	7.2
0°-40°	657.0	11.9
0°-60°	1202.9	21.7
0°-90°	1743.0	31.4
90°-120°	1837.3	33.1
90°-150°	3337.7	60.2
90°-180°	3800.0	68.6
0°-180°	5543.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	515	512	508	512	512	49
15°	491	492	492	499	498	138
25°	446	451	458	467	469	205
35°	384	397	411	428	433	240
45°	315	335	361	384	392	243
55°	242	268	307	334	344	216
65°	165	202	245	276	286	164
75°	92	133	181	213	222	97
85°	27	73	120	152	162	28
90°	8	64	132	160	169	7
95°	40	126	473	260	235	40
105°	124	207	796	1399	1212	132
115°	215	279	657	1331	1540	213
125°	298	352	614	1069	1241	265
135°	348	416	590	884	1015	269
145°	397	456	579	723	795	249
155°	452	488	562	636	661	208
165°	492	507	538	571	580	139
175°	513	513	518	524	523	49
180°	514	514	514	514	514	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.1	513.1	513.1	513.1	513.1
2.5°	516.9	514.6	509.4	513.1	511.7
5°	514.6	512.4	507.9	512.4	511.7
7.5°	510.9	509.4	505.7	510.9	510.2
10°	506.5	505.0	502.7	508.7	507.9
12.5°	499.0	499.8	498.3	504.2	503.5
15°	490.8	492.3	492.3	499.0	498.3
17.5°	480.4	483.4	485.6	492.3	492.3
20°	470.0	473.7	476.7	484.9	484.9
22.5°	458.9	463.3	467.8	476.0	477.5
25°	446.2	451.4	458.1	467.0	469.3
27.5°	431.3	439.5	447.0	458.1	459.6
30°	416.5	426.1	435.8	447.7	449.9
32.5°	400.1	411.3	423.2	437.3	441.8
35°	384.5	397.1	411.3	427.6	432.8
37.5°	367.4	381.5	399.4	417.2	422.4
40°	350.3	366.6	386.7	406.1	412.8
42.5°	333.9	350.3	374.1	395.6	402.3
45°	315.3	335.4	361.4	384.5	391.9
47.5°	297.5	319.0	348.8	372.6	380.8
50°	278.9	301.9	335.4	360.7	368.9
52.5°	261.0	285.6	321.3	347.3	356.2
55°	241.7	268.5	307.1	333.9	343.6
57.5°	223.1	252.9	291.5	320.5	330.2
60°	203.0	235.0	277.4	305.7	316.1
62.5°	185.2	218.6	261.0	291.5	301.2
65°	165.1	201.5	245.4	275.9	285.6
67.5°	147.3	185.2	229.8	260.3	270.7
70°	127.9	166.6	212.7	244.7	253.6
72.5°	110.1	150.2	197.1	228.3	239.5
75°	91.5	133.1	180.7	212.7	222.4
77.5°	73.6	116.8	165.1	197.1	207.5
80°	55.8	101.1	149.5	180.7	191.1
82.5°	40.9	85.5	134.6	165.8	175.5
85°	26.8	72.9	120.5	151.7	162.1
87.5°	16.4	61.0	108.6	139.1	148.7
90°	8.4	64.0	131.8	160.0	169.4
92.5°	21.5	93.1	243.6	190.6	189.7
95°	40.5	125.8	472.8	260.0	235.3
97.5°	56.6	149.4	711.6	401.3	305.5
100°	81.3	170.0	854.9	686.3	463.8
102.5°	103.3	189.0	854.6	1083.9	793.7
105°	124.2	207.1	796.1	1398.6	1211.6
107.5°	147.9	225.2	741.5	1508.6	1491.2
110°	171.0	243.6	703.4	1484.0	1601.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.7	261.9	676.5	1415.1	1594.7
115°	215.4	279.4	657.1	1331.0	1540.2
117.5°	238.3	297.7	644.0	1251.2	1461.2
120°	260.1	315.4	632.7	1178.6	1385.9
122.5°	280.8	334.5	624.3	1121.6	1306.1
125°	297.9	352.2	614.1	1069.4	1240.6
127.5°	312.7	369.7	606.7	1023.4	1178.3
130°	325.6	386.0	600.3	977.7	1126.0
132.5°	337.4	401.8	594.8	930.5	1072.4
135°	348.5	415.6	590.1	884.4	1014.7
137.5°	359.3	427.5	586.4	837.6	958.4
140°	372.2	437.6	582.4	795.8	900.0
142.5°	385.0	446.6	580.9	756.3	842.5
145°	397.2	456.4	578.9	723.2	794.6
147.5°	411.0	464.4	576.0	694.2	750.9
150°	424.8	472.2	573.0	671.8	714.3
152.5°	438.7	480.2	568.1	653.5	685.6
155°	451.5	487.6	562.2	635.8	660.9
157.5°	462.4	493.5	556.2	619.0	639.2
160°	473.2	499.4	550.3	602.2	618.5
162.5°	484.1	503.8	545.4	586.3	598.7
165°	492.0	506.8	538.4	571.0	579.9
167.5°	498.9	509.8	532.5	557.2	562.2
170°	505.8	511.3	527.6	544.4	546.3
172.5°	509.8	512.8	521.6	533.0	533.5
175°	512.8	513.2	517.7	524.1	522.6
177.5°	514.7	513.7	513.7	517.7	514.7
180°	513.7	513.7	513.7	513.7	513.7

(END OF REPORT)