

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: P1008951

Luminaire Tested: S122DIP-B290D925UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008951
REPORT IS A COMBINATION OF REPORTS P984066 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D925UB27-4F0-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

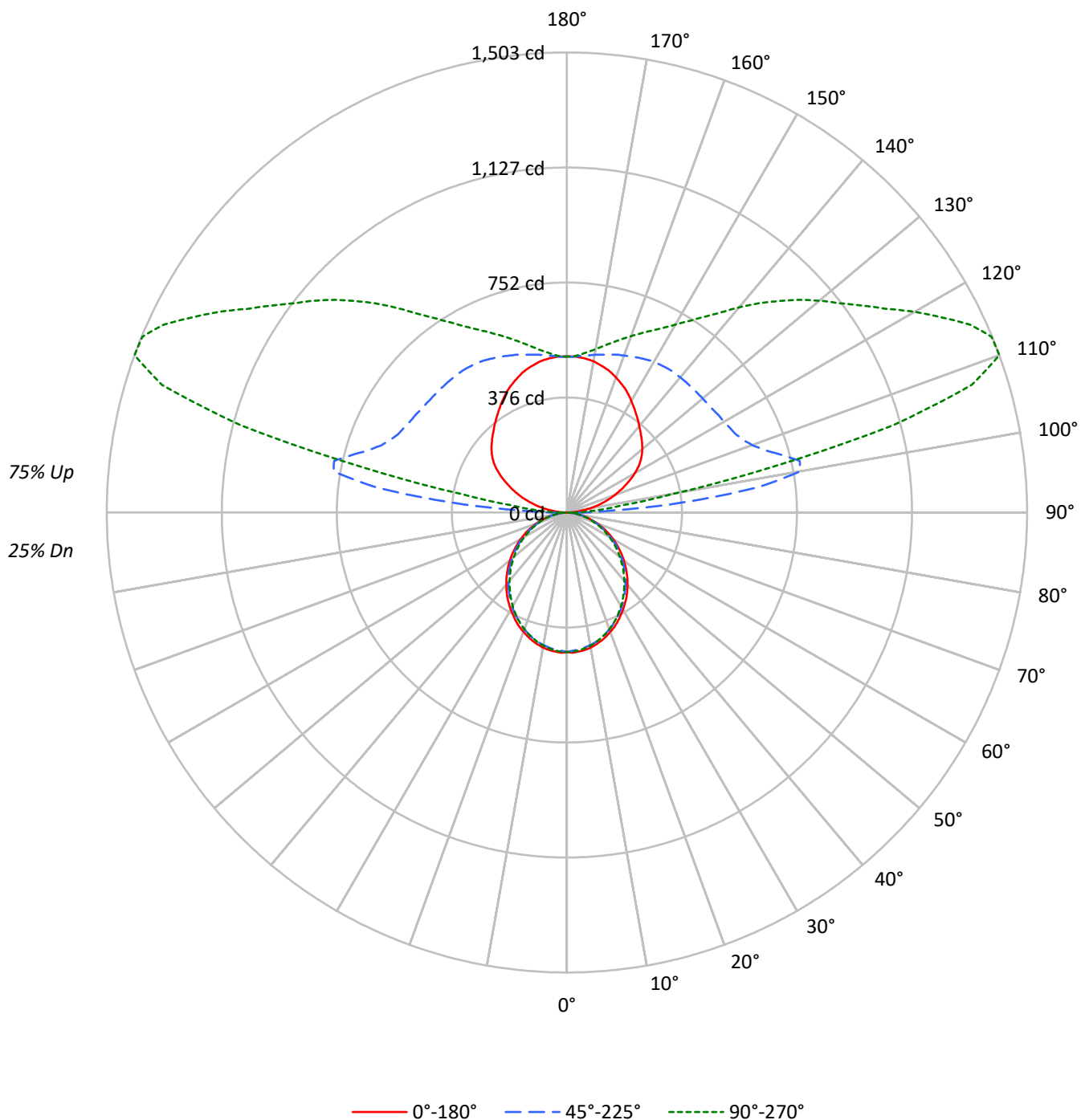
Lumens per Lamp: N/A
Luminaire Lumens: 4715.1 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33
1	92	88	84	81	82	78	75	72	61	58	57	44	43	42	29	28	28
2	84	77	71	66	74	68	64	59	53	50	47	39	37	35	25	24	23
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13
7	54	42	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12
8	50	38	31	26	45	35	28	24	27	22	19	20	17	15	14	12	10
9	47	35	28	23	41	31	25	21	25	20	17	19	15	13	13	11	9
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7217	7217	7217
5°	7228	6880	6831
10°	7171	6566	6435
15°	7065	6250	6021
20°	6923	5907	5626
25°	6781	5548	5234
30°	6604	5210	4822
35°	6436	4855	4417
40°	6230	4503	4033
45°	6023	4155	3658
50°	5797	3801	3269
55°	5561	3422	2899
60°	5295	3012	2517
65°	5002	2595	2113
70°	4634	2139	1707
75°	4123	1649	1317
80°	3497	1120	847
85°	2543	521	360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	0.9
10°-20°	120.7	2.6
20°-30°	177.4	3.8
30°-40°	206.1	4.4
40°-50°	205.8	4.4
50°-60°	179.5	3.8
60°-70°	132.7	2.8
70°-80°	75.1	1.6
80°-90°	23.1	0.5
90°-100°	206.5	4.4
100°-110°	698.2	14.8
110°-120°	733.9	15.6
120°-130°	603.5	12.8
130°-140°	484.9	10.3
140°-150°	366.3	7.8
150°-160°	257.5	5.5
160°-170°	151.6	3.2
170°-180°	49.3	1.0
0°-30°	341.1	7.2
0°-40°	547.2	11.6
0°-60°	932.5	19.8
0°-90°	1163.3	24.7
90°-120°	1638.5	34.8
90°-150°	3093.3	65.6
90°-180°	3552.0	75.3
0°-180°	4715.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	454	449	453	452	43
15°	434	431	426	427	425	122
25°	393	389	382	383	382	181
35°	339	334	328	325	323	212
45°	276	273	266	261	260	213
55°	209	206	201	196	193	187
65°	141	138	134	130	128	139
75°	74	73	71	68	69	79
85°	18	18	17	16	15	20
90°	1	13	33	32	32	3
95°	34	84	384	145	112	35
105°	120	180	726	1298	1104	127
115°	211	266	607	1254	1453	209
125°	294	348	584	1015	1179	261
135°	345	412	577	853	977	266
145°	394	453	574	713	780	247
155°	448	483	557	630	655	206
165°	488	503	534	566	575	138
175°	508	509	513	520	518	48
180°	509	509	509	509	509	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	455.9	455.9	455.9	455.9	455.9
2.5°	458.6	456.4	451.6	455.9	455.1
5°	455.9	454.2	449.4	452.9	452.0
7.5°	452.9	450.2	445.4	448.9	448.1
10°	448.1	445.0	439.7	443.2	441.9
12.5°	441.5	438.8	433.6	435.8	434.9
15°	434.0	431.4	425.7	427.4	425.3
17.5°	424.8	422.2	416.5	418.7	416.5
20°	414.7	412.1	406.0	407.3	405.5
22.5°	404.7	400.7	395.0	395.0	394.1
25°	392.8	389.3	381.9	382.7	381.9
27.5°	379.7	376.6	370.9	369.6	367.4
30°	366.5	363.0	356.4	355.1	353.4
32.5°	352.5	349.9	342.8	340.2	338.5
35°	338.9	334.5	327.5	324.9	322.7
37.5°	323.5	319.6	312.6	309.5	307.3
40°	307.8	304.3	297.2	293.3	291.5
42.5°	292.4	288.9	281.9	277.5	274.9
45°	275.8	272.7	266.1	261.3	259.5
47.5°	259.5	256.5	249.5	244.6	242.0
50°	242.4	240.2	234.1	228.0	225.8
52.5°	225.8	222.7	217.0	212.2	209.1
55°	208.7	206.1	200.8	195.5	193.3
57.5°	191.6	189.4	183.7	178.4	176.7
60°	174.5	172.7	166.6	161.8	160.5
62.5°	157.8	154.8	150.4	146.0	144.2
65°	140.7	138.1	133.7	129.8	127.6
67.5°	123.2	121.0	117.1	114.0	112.2
70°	107.0	105.2	101.3	98.2	96.5
72.5°	90.3	88.6	86.4	83.3	82.0
75°	73.7	72.8	70.6	68.0	68.8
77.5°	58.7	57.0	56.1	54.8	53.5
80°	43.8	43.4	42.5	41.2	40.3
82.5°	29.8	29.8	29.4	27.6	27.6
85°	18.0	17.5	17.1	15.8	15.3
87.5°	7.9	7.0	6.1	4.8	4.4
90°	1.0	13.2	33.3	31.8	32.3
92.5°	14.7	46.5	150.9	69.6	59.8
95°	34.3	84.2	384.0	145.0	111.7
97.5°	50.9	111.2	626.0	291.0	187.1
100°	75.4	136.2	774.0	579.5	350.7
102.5°	98.0	158.7	778.8	979.7	683.8
105°	119.5	180.2	725.9	1297.6	1104.1
107.5°	143.0	201.8	677.0	1412.7	1387.2
110°	166.5	223.9	643.7	1394.1	1502.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.1	244.9	622.1	1330.9	1500.9
115°	210.6	266.0	607.4	1253.6	1452.9
117.5°	234.1	287.0	599.6	1179.5	1380.4
120°	255.7	307.6	592.7	1113.4	1310.8
122.5°	276.3	328.7	588.8	1062.0	1238.3
125°	293.9	347.8	583.9	1015.4	1178.6
127.5°	308.6	365.9	581.0	975.8	1122.7
130°	321.3	382.1	579.0	935.6	1076.7
132.5°	333.1	397.8	578.0	894.0	1028.7
135°	344.8	411.5	577.0	853.3	976.7
137.5°	355.6	423.2	577.0	812.2	926.8
140°	368.4	434.0	576.1	776.0	874.9
142.5°	381.1	442.8	576.1	741.2	822.9
145°	393.8	452.6	574.1	712.7	779.8
147.5°	407.5	460.4	571.2	687.8	741.6
150°	421.3	468.3	568.2	666.2	708.3
152.5°	435.0	476.2	563.3	648.0	679.9
155°	447.7	483.4	557.4	630.4	655.4
157.5°	458.5	489.4	551.6	613.8	633.9
160°	469.3	495.2	545.7	597.1	613.3
162.5°	480.0	499.6	540.8	581.4	593.7
165°	487.9	502.6	533.9	566.2	575.1
167.5°	494.7	505.6	528.1	552.6	557.4
170°	501.6	507.0	523.2	539.8	541.8
172.5°	505.5	508.4	517.3	528.6	529.0
175°	508.5	509.0	513.4	519.7	518.3
177.5°	510.4	509.4	509.4	513.4	510.4
180°	509.4	509.4	509.4	509.4	509.4

(END OF REPORT)