

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: P1008949

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008949
REPORT IS A COMBINATION OF REPORTS P984064 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D925UB27-4F0-XX-W2A-F
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

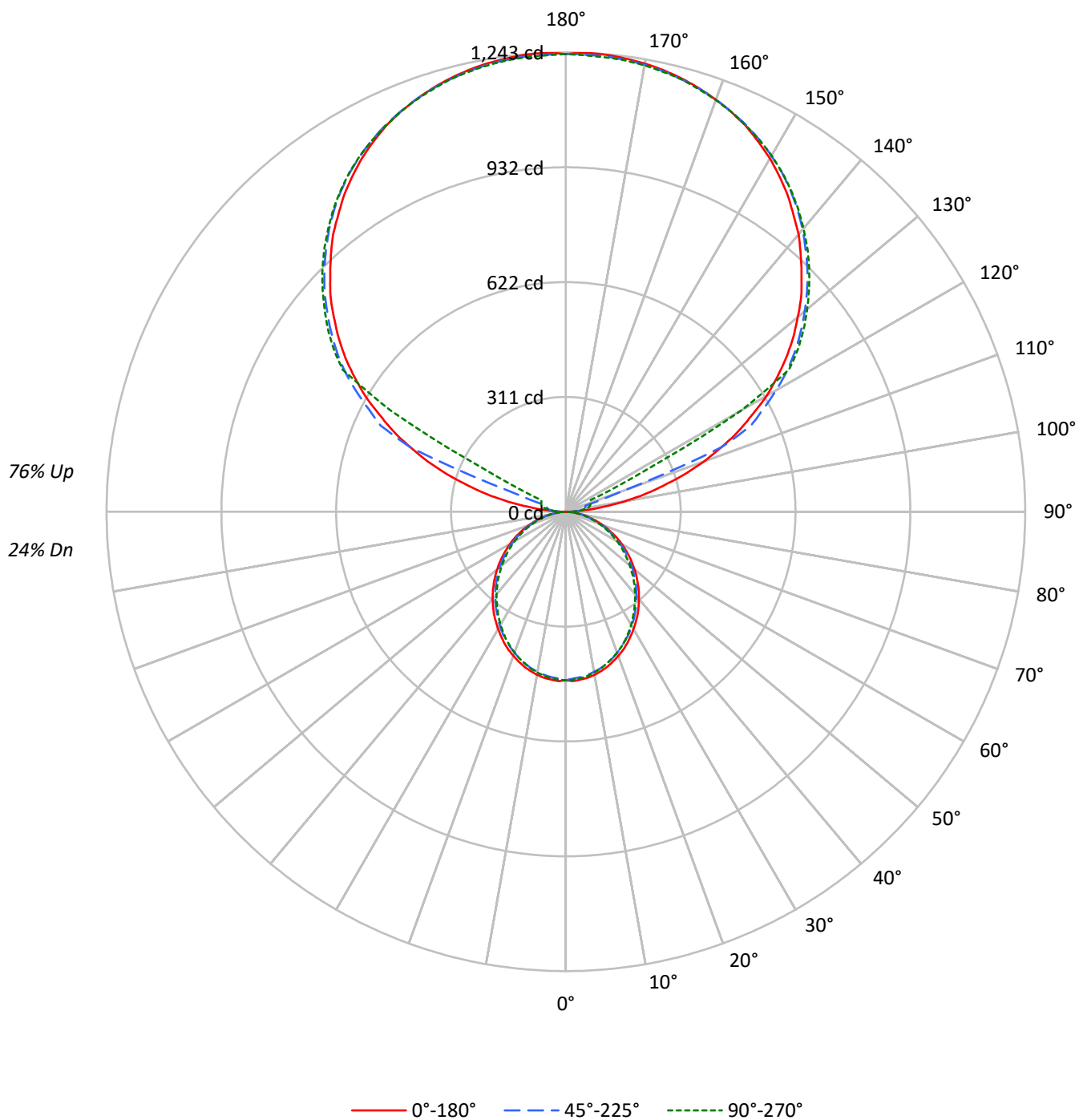
Lumens per Lamp: N/A
Luminaire Lumens: 4794.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	32	32	32
1	92	88	84	81	82	78	75	72	60	58	56	44	43	41	29	28	27
2	84	77	71	66	74	68	63	59	53	49	47	38	36	35	25	24	23
3	76	67	60	55	68	60	54	49	47	42	39	34	31	29	22	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	28	27	24	21	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	29	48	38	31	27	30	25	22	22	19	16	15	13	11
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	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	2.5
20°-30°	177.4	3.7
30°-40°	206.1	4.3
40°-50°	205.8	4.3
50°-60°	179.5	3.7
60°-70°	132.7	2.8
70°-80°	75.1	1.6
80°-90°	22.0	0.5
90°-100°	40.9	0.9
100°-110°	152.3	3.2
110°-120°	403.9	8.4
120°-130°	669.8	14.0
130°-140°	711.5	14.8
140°-150°	661.3	13.8
150°-160°	531.6	11.1
160°-170°	342.6	7.1
170°-180°	117.9	2.5
0°-30°	341.1	7.1
0°-40°	547.2	11.4
0°-60°	932.5	19.5
0°-90°	1162.2	24.2
90°-120°	597.0	12.5
90°-150°	2639.6	55.1
90°-180°	3632.0	75.8
0°-180°	4794.0	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	11	18	22	24	4
95°	58	29	35	39	38	69
105°	272	299	55	64	68	291
115°	515	531	553	138	74	507
125°	729	740	758	764	766	650
135°	902	916	924	933	931	697
145°	1046	1045	1060	1067	1062	654
155°	1152	1144	1155	1160	1153	531
165°	1214	1208	1211	1217	1211	343
175°	1242	1235	1237	1243	1234	118
180°	1239	1239	1239	1239	1239	

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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°	0.9	10.8	17.9	22.4	24.2
92.5°	22.4	18.8	21.5	23.3	24.2
95°	58.3	28.7	35.0	39.4	38.5
97.5°	104.9	31.4	45.7	48.4	49.3
100°	158.7	35.9	51.1	58.3	60.1
102.5°	217.8	216.0	52.9	62.7	65.4
105°	272.5	299.4	54.7	64.5	68.1
107.5°	336.2	358.6	56.5	66.3	69.9
110°	397.1	415.9	156.9	67.2	70.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	454.5	470.6	455.4	69.0	71.7
115°	515.4	530.7	553.1	138.0	73.5
117.5°	568.3	586.2	601.5	473.3	238.4
120°	627.5	640.9	657.1	667.8	546.8
122.5°	677.7	692.0	710.0	715.3	716.2
125°	728.8	740.4	757.5	763.7	766.4
127.5°	775.4	787.9	801.4	810.4	811.2
130°	819.3	833.7	843.5	853.4	852.5
132.5°	864.1	875.8	885.6	893.7	892.8
135°	901.8	916.1	924.2	933.2	931.4
137.5°	941.2	952.0	960.9	969.9	967.2
140°	979.8	986.9	996.8	1004.9	1000.4
142.5°	1012.0	1018.3	1030.0	1037.1	1032.7
145°	1046.1	1045.2	1060.4	1066.7	1062.2
147.5°	1075.7	1073.0	1088.2	1092.7	1089.1
150°	1104.4	1098.1	1112.4	1117.8	1113.3
152.5°	1128.6	1121.4	1134.8	1140.2	1134.0
155°	1151.9	1143.8	1154.6	1159.9	1152.8
157.5°	1170.7	1163.5	1171.6	1177.9	1170.7
160°	1186.8	1181.5	1186.8	1192.2	1185.9
162.5°	1201.2	1195.8	1200.3	1206.6	1198.5
165°	1213.7	1208.4	1211.0	1217.3	1211.0
167.5°	1223.6	1218.2	1220.9	1227.2	1219.1
170°	1231.7	1226.3	1228.1	1234.3	1226.3
172.5°	1237.0	1231.7	1233.5	1239.7	1231.7
175°	1241.5	1235.2	1237.0	1243.3	1234.3
177.5°	1243.3	1237.0	1237.9	1244.2	1236.1
180°	1238.8	1238.8	1238.8	1238.8	1238.8

(END OF REPORT)