

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: P1008729

Luminaire Tested: S122DIP-B1005D925UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008729
REPORT IS A COMBINATION OF REPORTS P983766 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D925UB27-4F0-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

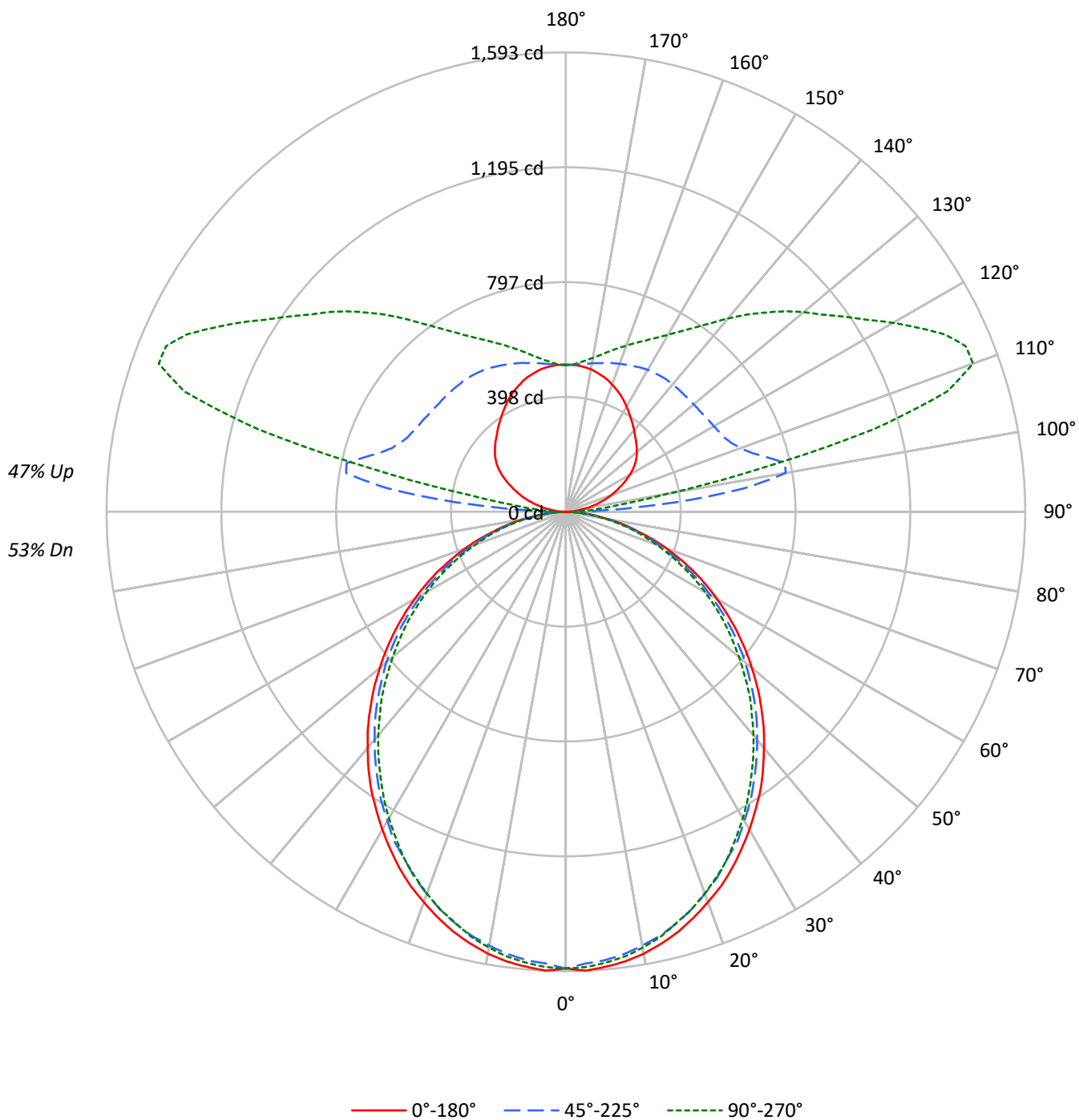
Lumens per Lamp: N/A
Luminaire Lumens: 7584.1 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	108	108	108	108	100	100	100	100	85	85	85		72	72	72		59	59	59	53
1	99	94	90	87	91	87	84	81	75	72	70		63	61	60		52	51	50	45
2	90	82	76	71	83	76	71	66	65	61	58		55	52	50		46	44	42	38
3	82	72	65	59	75	67	61	56	58	53	49		49	45	42		41	38	36	32
4	75	64	56	50	69	60	53	47	51	46	42		44	39	36		36	33	31	27
5	69	57	49	43	63	53	46	40	46	40	36		39	35	31		33	30	27	24
6	63	51	43	37	58	48	41	35	41	36	31		35	31	27		30	26	24	21
7	59	46	38	33	54	43	36	31	38	32	28		32	28	24		27	24	21	18
8	54	42	34	29	50	39	32	27	34	29	25		29	25	22		25	21	19	17
9	51	38	31	26	47	36	29	24	31	26	22		27	23	20		23	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20		25	21	18		21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25067	25067	25067
5°	25108	23894	23724
10°	24904	22805	22353
15°	24540	21709	20909
20°	24047	20514	19542
25°	23556	19269	18178
30°	22937	18098	16746
35°	22355	16861	15339
40°	21634	15642	14009
45°	20918	14433	12705
50°	20138	13201	11353
55°	19313	11886	10071
60°	18389	10461	8739
65°	17377	9013	7339
70°	16089	7428	5926
75°	14310	5728	4576
80°	12159	3892	2945
85°	8814	1811	1253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20918 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	2.0
10°-20°	419.4	5.5
20°-30°	616.3	8.1
30°-40°	715.8	9.4
40°-50°	714.9	9.4
50°-60°	623.3	8.2
60°-70°	460.8	6.1
70°-80°	260.7	3.4
80°-90°	72.0	0.9
90°-100°	206.5	2.7
100°-110°	698.2	9.2
110°-120°	733.9	9.7
120°-130°	603.5	8.0
130°-140°	484.9	6.4
140°-150°	366.3	4.8
150°-160°	257.5	3.4
160°-170°	151.6	2.0
170°-180°	49.3	0.7
0°-30°	1184.7	15.6
0°-40°	1900.5	25.1
0°-60°	3238.7	42.7
0°-90°	4032.2	53.2
90°-120°	1638.5	21.6
90°-150°	3093.3	40.8
90°-180°	3552.0	46.8
0°-180°	7584.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1584	1578	1561	1573	1570	150
15°	1508	1498	1479	1485	1477	425
25°	1364	1352	1326	1329	1326	628
35°	1177	1162	1138	1128	1121	735
45°	958	947	924	908	901	739
55°	725	716	697	679	672	648
65°	489	480	464	451	443	483
75°	256	253	245	236	239	273
85°	62	61	59	55	53	70
90°	1	13	33	32	32	6
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°	1583.6	1583.6	1583.6	1583.6	1583.6
2.5°	1592.8	1585.1	1568.4	1583.6	1580.6
5°	1583.6	1577.5	1560.8	1573.0	1569.9
7.5°	1573.0	1563.8	1547.1	1559.3	1556.2
10°	1556.2	1545.6	1527.3	1539.5	1534.9
12.5°	1533.4	1524.2	1506.0	1513.6	1510.5
15°	1507.5	1498.4	1478.6	1484.7	1477.0
17.5°	1475.5	1466.4	1446.6	1454.2	1446.6
20°	1440.5	1431.4	1410.0	1414.6	1408.5
22.5°	1405.5	1391.8	1372.0	1372.0	1368.9
25°	1364.4	1352.2	1326.3	1329.3	1326.3
27.5°	1318.7	1308.0	1288.2	1283.7	1276.0
30°	1273.0	1260.8	1238.0	1233.4	1227.3
32.5°	1224.3	1215.1	1190.8	1181.6	1175.5
35°	1177.1	1161.8	1137.5	1128.3	1120.7
37.5°	1123.8	1110.1	1085.7	1075.0	1067.4
40°	1068.9	1056.8	1032.4	1018.7	1012.6
42.5°	1015.7	1003.5	979.1	963.9	954.7
45°	957.8	947.1	924.3	907.5	901.4
47.5°	901.4	890.8	866.4	849.7	840.5
50°	842.1	834.4	813.1	791.8	784.2
52.5°	784.2	773.5	753.7	737.0	726.3
55°	724.8	715.7	697.4	679.1	671.5
57.5°	665.4	657.8	638.0	619.7	613.7
60°	606.0	600.0	578.6	561.9	557.3
62.5°	548.2	537.5	522.3	507.1	501.0
65°	488.8	479.7	464.4	450.7	443.1
67.5°	427.9	420.3	406.6	395.9	389.8
70°	371.5	365.5	351.7	341.1	335.0
72.5°	313.7	307.6	300.0	289.3	284.7
75°	255.8	252.8	245.2	236.0	239.1
77.5°	204.0	198.0	194.9	190.3	185.8
80°	152.3	150.7	147.7	143.1	140.1
82.5°	103.5	103.5	102.0	95.9	95.9
85°	62.4	60.9	59.4	54.8	53.3
87.5°	27.4	24.4	21.3	16.7	15.2
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)