

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: P1008581

Luminaire Tested: S122DIP-B1005D1080UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008581
REPORT IS A COMBINATION OF REPORTS P983573 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D1080UB50-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

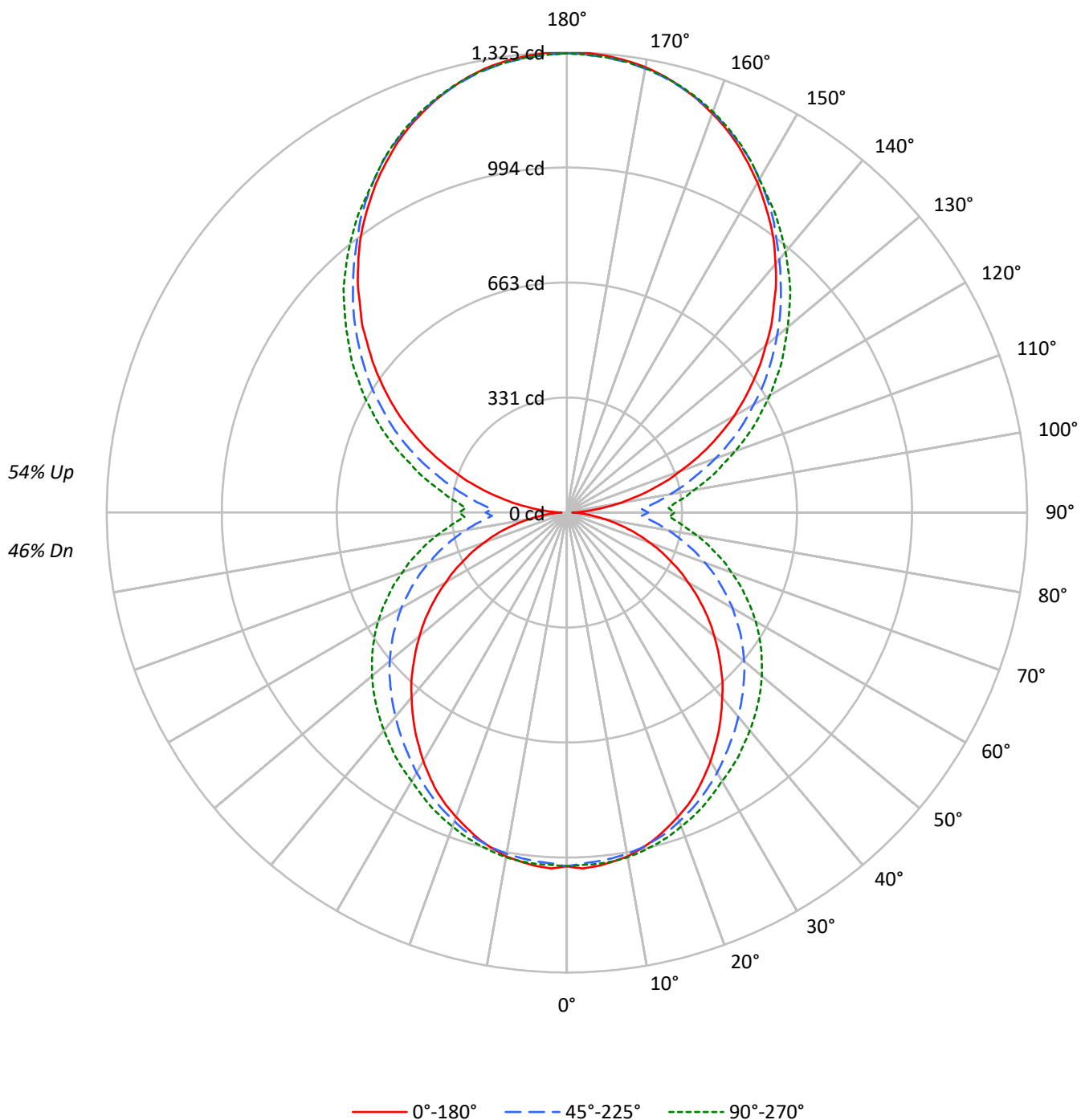
Lumens per Lamp: N/A
Luminaire Lumens: 7590.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46		
1	95	91	86	82	87	83	79	76	69	66	64	56	54	52	44	42	41	36		
2	86	78	72	66	79	72	66	61	59	55	51	48	45	42	38	36	34	29		
3	78	68	61	54	71	63	56	50	52	47	43	42	38	35	33	30	28	24		
4	71	60	52	46	65	55	48	42	46	40	36	37	33	30	29	26	24	20		
5	65	53	45	39	60	49	42	36	41	35	31	33	29	26	26	23	20	17		
6	60	48	39	33	55	44	36	31	37	31	27	30	26	22	24	20	18	15		
7	56	43	35	29	51	40	32	27	33	27	23	27	23	19	22	18	16	13		
8	51	39	31	25	47	36	29	24	30	25	20	25	20	17	20	16	14	12		
9	48	35	28	23	44	33	26	21	28	22	18	23	18	15	18	15	13	10		
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	14	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16130	16130	16130
5°	16202	15441	15354
10°	16094	14906	14688
15°	15867	14353	14006
20°	15580	13772	13358
25°	15298	13216	12771
30°	14901	12651	12190
35°	14500	12105	11764
40°	14078	11634	11339
45°	13674	11207	10970
50°	13243	10813	10604
55°	12787	10395	10233
60°	12235	9958	9842
65°	11653	9457	9392
70°	11000	8921	8909
75°	10159	8383	8452
80°	8846	7821	7978
85°	7515	7294	7570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.3
10°-20°	277.0	3.7
20°-30°	419.8	5.5
30°-40°	511.2	6.7
40°-50°	550.0	7.2
50°-60°	534.1	7.0
60°-70°	466.4	6.1
70°-80°	359.0	4.7
80°-90°	244.2	3.2
90°-100°	247.7	3.3
100°-110°	381.3	5.0
110°-120°	525.1	6.9
120°-130°	630.0	8.3
130°-140°	675.8	8.9
140°-150°	647.5	8.5
150°-160°	540.5	7.1
160°-170°	358.5	4.7
170°-180°	125.3	1.7
0°-30°	793.4	10.5
0°-40°	1304.6	17.2
0°-60°	2388.7	31.5
0°-90°	3458.3	45.6
90°-120°	1154.0	15.2
90°-150°	3107.4	40.9
90°-180°	4132.0	54.4
0°-180°	7590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1022	1018	1009	1018	1016	97
15°	975	978	978	991	989	275
25°	886	896	910	927	932	407
35°	764	789	817	849	860	477
45°	626	666	718	764	778	483
55°	480	533	610	663	682	429
65°	328	400	487	548	567	326
75°	182	264	359	422	442	192
85°	53	145	239	301	322	56
90°	16	115	234	291	310	14
95°	70	150	241	297	313	74
105°	247	294	373	426	443	262
115°	452	475	540	583	596	447
125°	653	663	707	743	755	584
135°	842	854	871	901	910	651
145°	1020	1028	1035	1045	1048	638
155°	1166	1170	1173	1179	1175	537
165°	1269	1268	1268	1276	1270	358
175°	1320	1317	1315	1323	1316	125
180°	1323	1323	1323	1323	1323	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1026.3	1021.9	1011.6	1019.0	1016.0
5°	1021.9	1017.5	1008.6	1017.5	1016.0
7.5°	1014.5	1011.6	1004.2	1014.5	1013.1
10°	1005.7	1002.7	998.3	1010.1	1008.6
12.5°	990.9	992.4	989.4	1001.2	999.8
15°	974.7	977.6	977.6	990.9	989.4
17.5°	954.0	959.9	964.3	977.6	977.6
20°	933.3	940.7	946.6	962.8	962.8
22.5°	911.2	920.0	928.9	945.1	948.1
25°	886.1	896.4	909.7	927.4	931.8
27.5°	856.5	872.8	887.5	909.7	912.6
30°	827.0	846.2	865.4	889.0	893.4
32.5°	794.5	816.6	840.3	868.3	877.2
35°	763.5	788.6	816.6	849.1	859.5
37.5°	729.5	757.6	793.0	828.5	838.8
40°	695.6	728.0	767.9	806.3	819.6
42.5°	663.1	695.6	742.8	785.6	798.9
45°	626.1	666.0	717.7	763.5	778.3
47.5°	590.7	633.5	692.6	739.9	756.1
50°	553.8	599.6	666.0	716.2	732.5
52.5°	518.3	567.1	638.0	689.6	707.4
55°	479.9	533.1	609.9	663.1	682.3
57.5°	443.0	502.1	578.9	636.5	655.7
60°	403.2	466.7	550.8	606.9	627.6
62.5°	367.7	434.2	518.3	578.9	598.1
65°	327.8	400.2	487.3	547.9	567.1
67.5°	292.4	367.7	456.3	516.9	537.5
70°	254.0	330.8	422.4	485.9	503.6
72.5°	218.6	298.3	391.3	453.4	475.5
75°	181.6	264.3	358.9	422.4	441.6
77.5°	146.2	231.9	327.8	391.3	412.0
80°	110.8	200.8	296.8	358.9	379.5
82.5°	81.2	169.8	267.3	329.3	348.5
85°	53.2	144.7	239.2	301.3	321.9
87.5°	32.5	121.1	215.6	276.2	295.4
90°	15.9	114.9	234.0	290.8	309.7
92.5°	37.9	125.1	216.2	274.9	292.7
95°	69.8	150.4	241.2	297.3	312.9
97.5°	107.4	181.0	271.1	325.7	343.5
100°	152.1	215.7	301.7	356.3	371.5
102.5°	197.5	252.9	337.1	391.4	406.5
105°	247.4	293.5	372.6	426.5	442.7
107.5°	298.7	338.6	412.5	463.8	474.4
110°	346.4	382.6	455.0	502.3	515.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	399.9	430.2	497.1	541.0	555.0
115°	452.4	475.4	539.6	582.8	595.7
117.5°	503.4	524.1	580.6	621.6	632.9
120°	555.8	570.7	620.8	662.2	675.1
122.5°	603.8	616.5	665.5	702.1	713.1
125°	652.7	662.7	706.6	743.1	755.3
127.5°	701.8	712.6	747.9	780.4	790.4
130°	747.6	760.6	789.3	822.5	829.8
132.5°	798.9	808.6	831.8	860.2	868.6
135°	842.0	854.3	871.3	901.2	909.7
137.5°	891.2	901.2	910.8	937.7	943.7
140°	934.7	943.2	951.8	975.4	979.8
142.5°	979.4	987.9	991.2	1010.1	1013.0
145°	1020.3	1028.1	1034.8	1044.8	1047.6
147.5°	1058.2	1068.3	1072.7	1076.5	1076.4
150°	1097.3	1104.0	1108.5	1111.8	1108.5
152.5°	1131.9	1138.6	1144.2	1148.6	1144.2
155°	1166.5	1169.8	1173.2	1178.8	1175.4
157.5°	1196.6	1198.9	1201.1	1208.9	1203.3
160°	1223.4	1225.7	1226.8	1233.5	1229.0
162.5°	1248.0	1248.0	1249.1	1256.9	1251.3
165°	1269.2	1268.1	1268.1	1275.9	1270.3
167.5°	1288.2	1284.8	1284.8	1292.6	1287.1
170°	1302.7	1299.3	1298.2	1306.0	1299.3
172.5°	1312.7	1309.4	1308.3	1316.1	1309.4
175°	1320.5	1317.2	1315.0	1322.8	1316.1
177.5°	1325.0	1321.7	1319.4	1326.1	1319.4
180°	1322.8	1322.8	1322.8	1322.8	1322.8

(END OF REPORT)