

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P998044

Luminaire Tested: SA2XXDIP-B1005D925UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998044
REPORT IS A COMBINATION OF REPORTS P983781 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B1005D925UB2750-4F0-XX-W2A-F_5000K
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

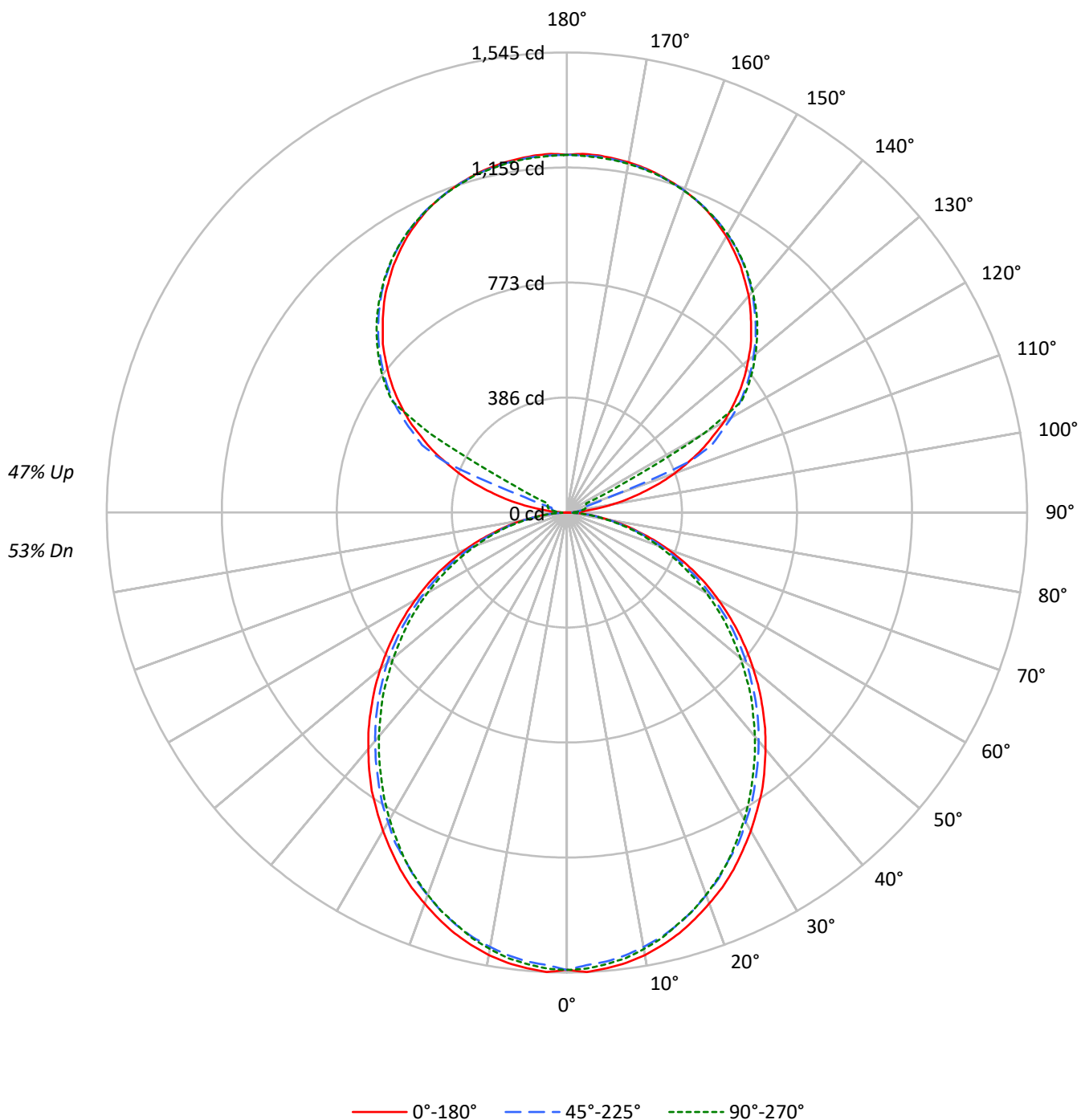
Lumens per Lamp: N/A
Luminaire Lumens: 7432.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	59	59	59
1	98	94	90	87	91	87	84	81	74	72	70	63	61	59	52	51	49	49	49	44
2	90	82	76	71	83	76	71	66	65	61	58	55	52	49	46	43	42	42	42	37
3	82	72	65	59	75	67	61	55	57	53	49	49	45	42	40	38	35	35	35	31
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	31	31	31	27
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27	27	27	23
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	30	26	23	23	23	21
7	59	46	38	33	54	43	36	31	37	32	27	32	28	24	27	24	21	21	21	18
8	54	42	34	29	50	39	32	27	34	28	24	29	25	22	25	21	19	19	19	16
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	19	17	17	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	15	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24315	24315	24315
5°	24355	23176	23013
10°	24156	22120	21681
15°	23803	21057	20282
20°	23324	19899	18956
25°	22848	18690	17633
30°	22249	17554	16243
35°	21683	16355	14879
40°	20984	15172	13589
45°	20289	13999	12325
50°	19533	12805	11011
55°	18732	11530	9770
60°	17837	10148	8477
65°	16854	8743	7118
70°	15608	7206	5748
75°	13879	5555	4439
80°	11792	3776	2857
85°	8560	1756	1216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20289 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	1.9
10°-20°	406.8	5.5
20°-30°	597.8	8.0
30°-40°	694.3	9.3
40°-50°	693.4	9.3
50°-60°	604.6	8.1
60°-70°	446.9	6.0
70°-80°	252.9	3.4
80°-90°	68.9	0.9
90°-100°	39.6	0.5
100°-110°	147.7	2.0
110°-120°	391.6	5.3
120°-130°	649.6	8.7
130°-140°	690.0	9.3
140°-150°	641.3	8.6
150°-160°	515.6	6.9
160°-170°	332.2	4.5
170°-180°	114.3	1.5
0°-30°	1149.1	15.5
0°-40°	1843.4	24.8
0°-60°	3141.4	42.3
0°-90°	3910.1	52.6
90°-120°	578.9	7.8
90°-150°	2559.8	34.4
90°-180°	3522.0	47.4
0°-180°	7432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1536	1530	1514	1526	1523	146
15°	1462	1453	1434	1440	1433	412
25°	1323	1312	1286	1289	1286	609
35°	1142	1127	1103	1094	1087	713
45°	929	919	896	880	874	717
55°	703	694	676	659	651	629
65°	474	465	450	437	430	469
75°	248	245	238	229	232	265
85°	61	59	58	53	52	67
90°	1	10	17	22	24	7
95°	56	28	34	38	37	67
105°	264	290	53	63	66	282
115°	500	515	536	134	71	492
125°	707	718	734	741	743	630
135°	874	888	896	905	903	676
145°	1014	1014	1028	1034	1030	634
155°	1117	1109	1120	1125	1118	515
165°	1177	1172	1174	1180	1174	333
175°	1204	1198	1200	1206	1197	115
180°	1201	1201	1201	1201	1201	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.1	1536.1	1536.1	1536.1	1536.1
2.5°	1544.9	1537.5	1521.3	1536.1	1533.1
5°	1536.1	1530.2	1513.9	1525.7	1522.8
7.5°	1525.7	1516.9	1500.6	1512.4	1509.5
10°	1509.5	1499.1	1481.4	1493.2	1488.8
12.5°	1487.3	1478.5	1460.7	1468.1	1465.2
15°	1462.2	1453.4	1434.2	1440.1	1432.7
17.5°	1431.2	1422.3	1403.1	1410.5	1403.1
20°	1397.2	1388.4	1367.7	1372.1	1366.2
22.5°	1363.3	1350.0	1330.8	1330.8	1327.8
25°	1323.4	1311.6	1286.5	1289.4	1286.5
27.5°	1279.1	1268.7	1249.5	1245.1	1237.7
30°	1234.8	1222.9	1200.8	1196.4	1190.5
32.5°	1187.5	1178.6	1155.0	1146.1	1140.2
35°	1141.7	1126.9	1103.3	1094.4	1087.1
37.5°	1090.0	1076.7	1053.1	1042.8	1035.4
40°	1036.8	1025.0	1001.4	988.1	982.2
42.5°	985.2	973.3	949.7	934.9	926.1
45°	929.0	918.7	896.5	880.3	874.4
47.5°	874.4	864.0	840.4	824.2	815.3
50°	816.8	809.4	788.7	768.0	760.6
52.5°	760.6	750.3	731.1	714.9	704.5
55°	703.0	694.2	676.5	658.7	651.4
57.5°	645.4	638.1	618.9	601.1	595.2
60°	587.8	581.9	561.3	545.0	540.6
62.5°	531.7	521.4	506.6	491.8	485.9
65°	474.1	465.3	450.5	437.2	429.8
67.5°	415.0	407.6	394.4	384.0	378.1
70°	360.4	354.5	341.2	330.8	324.9
72.5°	304.3	298.4	291.0	280.6	276.2
75°	248.1	245.2	237.8	228.9	231.9
77.5°	197.9	192.0	189.1	184.6	180.2
80°	147.7	146.2	143.3	138.8	135.9
82.5°	100.4	100.4	99.0	93.1	93.1
85°	60.6	59.1	57.6	53.2	51.7
87.5°	26.6	23.6	20.7	16.2	14.8
90°	0.9	10.4	17.4	21.7	23.5
92.5°	21.7	18.3	20.9	22.6	23.5
95°	56.5	27.8	33.9	38.2	37.4
97.5°	101.7	30.4	44.3	46.9	47.8
100°	153.9	34.8	49.5	56.5	58.2
102.5°	211.2	209.5	51.3	60.8	63.5
105°	264.3	290.3	53.0	62.6	66.1
107.5°	326.0	347.7	54.8	64.3	67.8
110°	385.1	403.3	152.1	65.2	68.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	440.7	456.4	441.6	66.9	69.5
115°	499.8	514.6	536.3	133.9	71.3
117.5°	551.1	568.5	583.3	459.0	231.2
120°	608.5	621.5	637.2	647.6	530.3
122.5°	657.2	671.1	688.5	693.7	694.5
125°	706.7	718.0	734.5	740.6	743.2
127.5°	751.9	764.1	777.1	785.8	786.7
130°	794.5	808.4	818.0	827.5	826.7
132.5°	838.0	849.3	858.8	866.7	865.8
135°	874.5	888.4	896.2	904.9	903.2
137.5°	912.7	923.2	931.9	940.6	937.9
140°	950.1	957.1	966.6	974.5	970.1
142.5°	981.4	987.5	998.8	1005.7	1001.4
145°	1014.4	1013.6	1028.3	1034.4	1030.1
147.5°	1043.1	1040.5	1055.3	1059.6	1056.2
150°	1070.9	1064.9	1078.8	1084.0	1079.6
152.5°	1094.4	1087.5	1100.5	1105.7	1099.6
155°	1117.0	1109.2	1119.6	1124.8	1117.9
157.5°	1135.3	1128.3	1136.1	1142.2	1135.3
160°	1150.9	1145.7	1150.9	1156.1	1150.0
162.5°	1164.8	1159.6	1164.0	1170.0	1162.2
165°	1177.0	1171.8	1174.4	1180.5	1174.4
167.5°	1186.6	1181.3	1183.9	1190.0	1182.2
170°	1194.4	1189.2	1190.9	1197.0	1189.2
172.5°	1199.6	1194.4	1196.1	1202.2	1194.4
175°	1203.9	1197.9	1199.6	1205.7	1197.0
177.5°	1205.7	1199.6	1200.5	1206.5	1198.7
180°	1201.3	1201.3	1201.3	1201.3	1201.3

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.56	17.45	17.50	18.40	19.63	17.34	18.23	18.28	19.18	20.41
	3H	17.90	18.70	18.85	19.66	20.91	18.97	19.77	19.92	20.73	21.98
	4H	18.31	19.06	19.27	20.02	21.29	19.56	20.32	20.52	21.28	22.55
	6H	18.53	19.22	19.50	20.19	21.47	19.97	20.66	20.94	21.63	22.91
	8H	18.56	19.22	19.54	20.21	21.48	20.08	20.74	21.06	21.73	23.00
	12H	18.55	19.18	19.53	20.16	21.46	20.12	20.75	21.11	21.73	23.03
4H	2H	17.03	17.79	18.00	18.75	20.02	17.68	18.43	18.64	19.39	20.66
	3H	18.55	19.18	19.53	20.18	21.45	19.46	20.09	20.43	21.08	22.36
	4H	19.06	19.63	20.04	20.62	21.93	20.14	20.71	21.13	21.70	23.01
	6H	19.36	19.86	20.36	20.87	22.17	20.64	21.13	21.64	22.14	23.45
	8H	19.42	19.88	20.42	20.89	22.20	20.78	21.24	21.78	22.25	23.57
	12H	19.42	19.84	20.44	20.86	22.18	20.85	21.26	21.86	22.28	23.60
8H	4H	19.24	19.70	20.24	20.70	22.02	20.23	20.69	21.23	21.70	23.01
	6H	19.62	20.00	20.65	21.05	22.37	20.80	21.18	21.82	22.23	23.54
	8H	19.72	20.06	20.76	21.09	22.43	20.99	21.32	22.02	22.36	23.69
	12H	19.76	20.05	20.79	21.08	22.46	21.09	21.38	22.12	22.41	23.79
12H	4H	19.22	19.64	20.24	20.66	21.98	20.19	20.61	21.21	21.63	22.95
	6H	19.64	19.98	20.67	21.01	22.34	20.79	21.13	21.82	22.16	23.49
	8H	19.75	20.05	20.79	21.08	22.46	20.99	21.28	22.02	22.31	23.69