

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: P998332

Luminaire Tested: SA2XXDIP-B290D925UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P998332
REPORT IS A COMBINATION OF REPORTS P984072 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D925UB2750-4F0-XX-W2A-D_2700K
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

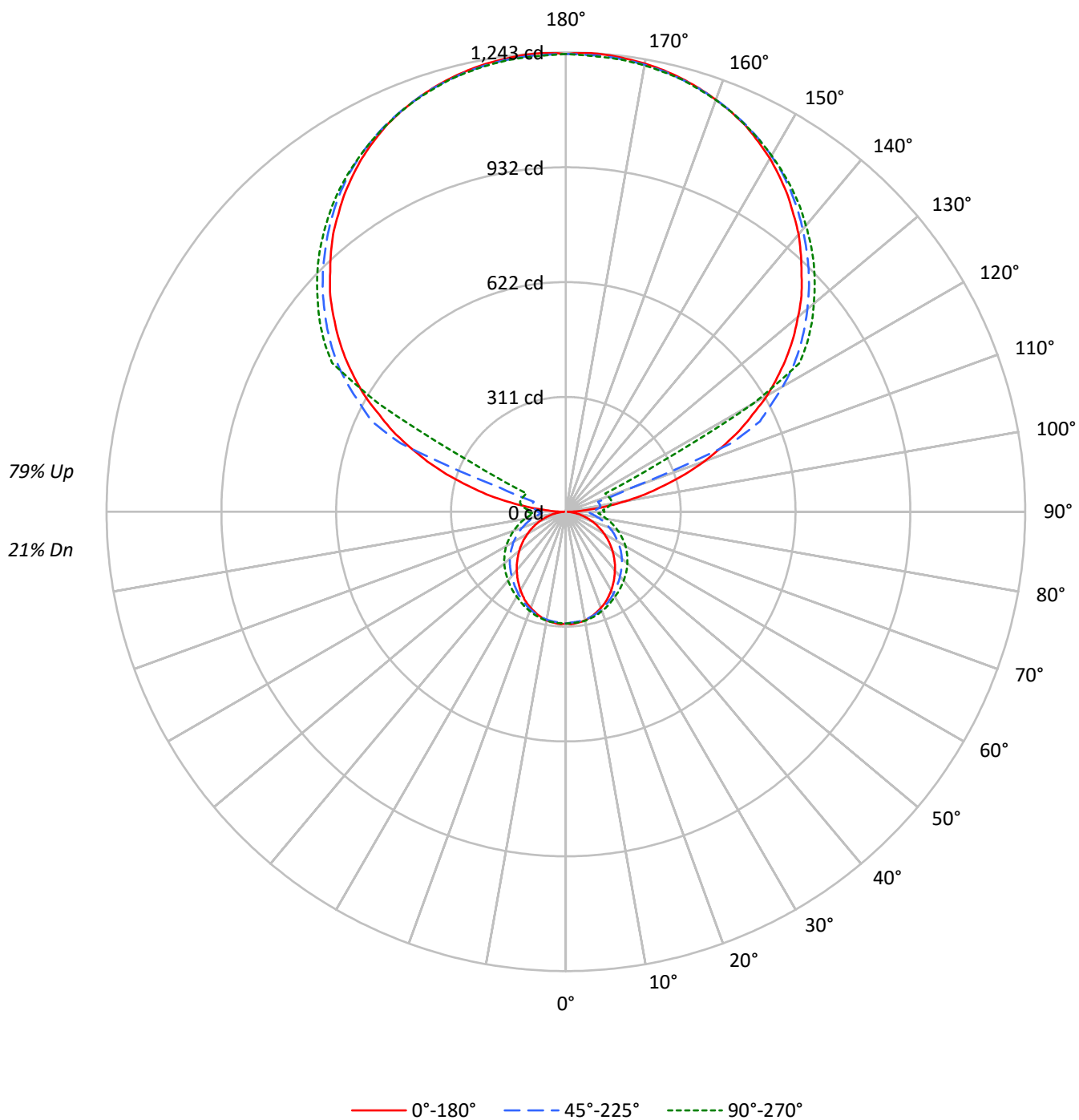
Lumens per Lamp: N/A
Luminaire Lumens: 4788.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
Input Voltage (V): 120
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	100	100	100	100	89	89	89	89	67	67	67	48	48	48	30	30	30
1	91	86	82	79	80	76	73	70	58	56	54	41	40	38	25	25	24
2	82	75	69	64	73	66	61	57	50	47	44	36	33	31	22	21	20
3	75	66	58	53	66	58	52	47	44	40	37	31	29	26	19	18	16
4	68	58	50	44	60	51	45	40	39	34	31	28	25	22	17	15	14
5	62	51	43	37	55	45	39	34	35	30	26	25	21	19	15	13	12
6	57	46	38	32	50	41	34	29	31	26	23	22	19	16	14	12	10
7	53	41	33	28	47	36	30	25	28	23	20	20	17	14	12	11	9
8	49	37	29	24	43	33	26	22	25	21	17	18	15	13	11	10	8
9	45	34	26	21	40	30	24	19	23	18	15	17	13	11	10	9	7
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4787	4787	4787
5°	4809	4584	4558
10°	4777	4424	4360
15°	4709	4261	4158
20°	4624	4088	3965
25°	4541	3923	3791
30°	4423	3755	3618
35°	4303	3593	3491
40°	4177	3453	3366
45°	4058	3326	3256
50°	3931	3210	3147
55°	3797	3085	3037
60°	3632	2956	2921
65°	3459	2806	2787
70°	3265	2648	2645
75°	3015	2488	2509
80°	2627	2322	2367
85°	2232	2165	2248

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.6
10°-20°	82.2	1.7
20°-30°	124.6	2.6
30°-40°	151.7	3.2
40°-50°	163.2	3.4
50°-60°	158.5	3.3
60°-70°	138.4	2.9
70°-80°	106.6	2.2
80°-90°	73.5	1.5
90°-100°	90.1	1.9
100°-110°	188.2	3.9
110°-120°	427.6	8.9
120°-130°	683.1	14.3
130°-140°	717.1	15.0
140°-150°	662.2	13.8
150°-160°	531.6	11.1
160°-170°	342.6	7.2
170°-180°	117.9	2.5
0°-30°	235.5	4.9
0°-40°	387.2	8.1
0°-60°	709.0	14.8
0°-90°	1027.5	21.5
90°-120°	705.9	14.7
90°-150°	2768.3	57.8
90°-180°	3760.0	78.5
0°-180°	4788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	303	302	299	302	302	29
15°	289	290	290	294	294	81
25°	263	266	270	275	277	121
35°	227	234	242	252	255	142
45°	186	198	213	227	231	143
55°	142	158	181	197	202	127
65°	97	119	145	163	168	97
75°	54	78	106	125	131	57
85°	16	43	71	89	96	17
90°	5	41	76	98	105	6
95°	62	53	85	106	111	72
105°	275	314	92	118	126	294
115°	517	537	579	177	118	509
125°	730	741	772	790	797	651
135°	902	916	929	947	949	697
145°	1046	1045	1060	1069	1067	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°	302.4	302.4	302.4	302.4	302.4
2.5°	304.6	303.3	300.2	302.4	301.6
5°	303.3	302.0	299.4	302.0	301.6
7.5°	301.1	300.2	298.1	301.1	300.7
10°	298.5	297.6	296.3	299.8	299.4
12.5°	294.1	294.5	293.7	297.2	296.7
15°	289.3	290.2	290.2	294.1	293.7
17.5°	283.2	284.9	286.2	290.2	290.2
20°	277.0	279.2	281.0	285.8	285.8
22.5°	270.4	273.1	275.7	280.5	281.4
25°	263.0	266.1	270.0	275.3	276.6
27.5°	254.2	259.0	263.4	270.0	270.9
30°	245.5	251.2	256.9	263.9	265.2
32.5°	235.8	242.4	249.4	257.7	260.4
35°	226.6	234.1	242.4	252.0	255.1
37.5°	216.5	224.9	235.4	245.9	249.0
40°	206.4	216.1	227.9	239.3	243.3
42.5°	196.8	206.4	220.5	233.2	237.1
45°	185.8	197.7	213.0	226.6	231.0
47.5°	175.3	188.0	205.6	219.6	224.4
50°	164.4	178.0	197.7	212.6	217.4
52.5°	153.8	168.3	189.4	204.7	210.0
55°	142.5	158.2	181.0	196.8	202.5
57.5°	131.5	149.0	171.8	188.9	194.6
60°	119.7	138.5	163.5	180.1	186.3
62.5°	109.1	128.9	153.8	171.8	177.5
65°	97.3	118.8	144.6	162.6	168.3
67.5°	86.8	109.1	135.4	153.4	159.5
70°	75.4	98.2	125.4	144.2	149.5
72.5°	64.9	88.5	116.2	134.6	141.1
75°	53.9	78.5	106.5	125.4	131.1
77.5°	43.4	68.8	97.3	116.2	122.3
80°	32.9	59.6	88.1	106.5	112.6
82.5°	24.1	50.4	79.3	97.7	103.4
85°	15.8	43.0	71.0	89.4	95.6
87.5°	9.6	35.9	64.0	82.0	87.7
90°	5.3	40.6	75.8	97.8	104.9
92.5°	26.3	46.0	75.4	94.3	100.5
95°	61.8	52.8	85.4	106.5	110.8
97.5°	108.0	53.3	93.0	112.0	118.1
100°	161.8	55.2	94.9	118.3	125.0
102.5°	220.4	233.1	93.7	119.2	126.8
105°	274.7	314.3	92.4	117.5	126.0
107.5°	338.4	371.3	91.1	115.8	124.3
110°	398.9	426.4	188.9	113.2	121.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	456.3	479.4	484.3	112.0	119.5
115°	517.2	537.3	579.4	177.4	117.8
117.5°	569.6	591.0	624.7	509.7	279.2
120°	628.8	644.0	677.7	700.7	584.5
122.5°	679.0	693.8	728.0	745.1	750.0
125°	729.7	741.3	772.4	790.4	797.1
127.5°	776.3	788.3	813.7	833.6	838.4
130°	820.2	834.1	853.1	873.6	876.2
132.5°	865.0	876.2	892.6	910.8	913.4
135°	902.2	916.5	929.0	947.2	948.9
137.5°	941.6	952.4	963.5	980.9	981.2
140°	980.2	986.9	997.7	1012.8	1010.9
142.5°	1012.4	1018.3	1030.0	1042.4	1040.2
145°	1046.1	1045.2	1060.4	1069.3	1067.0
147.5°	1075.7	1073.0	1088.2	1093.1	1090.9
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

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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	7.14	7.81	8.30	8.96	10.59	10.21	10.88	11.38	12.03	13.66
	3H	8.59	9.19	9.76	10.35	11.99	12.79	13.39	13.96	14.55	16.19
	4H	9.05	9.63	10.23	10.79	12.43	14.04	14.61	15.21	15.77	17.41
	6H	9.33	9.86	10.51	11.02	12.68	15.32	15.85	16.51	17.01	18.67
	8H	9.38	9.89	10.57	11.06	12.71	15.98	16.48	17.16	17.66	19.30
	12H	9.39	9.87	10.58	11.04	12.71	16.69	17.17	17.89	18.34	20.01
4H	2H	8.17	8.74	9.35	9.90	11.55	10.52	11.10	11.71	12.26	13.90
	3H	9.86	10.34	11.05	11.53	13.18	13.30	13.78	14.49	14.97	16.62
	4H	10.48	10.92	11.67	12.10	13.77	14.71	15.16	15.90	16.33	18.00
	6H	10.88	11.27	12.08	12.46	14.12	16.17	16.55	17.36	17.75	19.41
	8H	10.98	11.34	12.18	12.53	14.21	16.92	17.28	18.11	18.46	20.14
	12H	11.02	11.35	12.23	12.54	14.23	17.74	18.07	18.95	19.26	20.95
8H	4H	11.25	11.61	12.44	12.80	14.48	14.84	15.20	16.03	16.38	18.06
	6H	11.88	12.17	13.09	13.40	15.08	16.46	16.76	17.67	17.99	19.66
	8H	12.10	12.36	13.31	13.56	15.26	17.35	17.61	18.56	18.81	20.51
	12H	12.22	12.45	13.44	13.65	15.38	18.33	18.56	19.55	19.76	21.49
12H	4H	11.44	11.77	12.65	12.96	14.65	14.80	15.13	16.01	16.33	18.01
	6H	12.21	12.47	13.43	13.67	15.37	16.48	16.74	17.70	17.95	19.64
	8H	12.50	12.73	13.72	13.94	15.66	17.40	17.63	18.62	18.83	20.56