

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: P998643

Luminaire Tested: SA2XXDIP-B485D925UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998643
REPORT IS A COMBINATION OF REPORTS P984386 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B485D925UB30-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

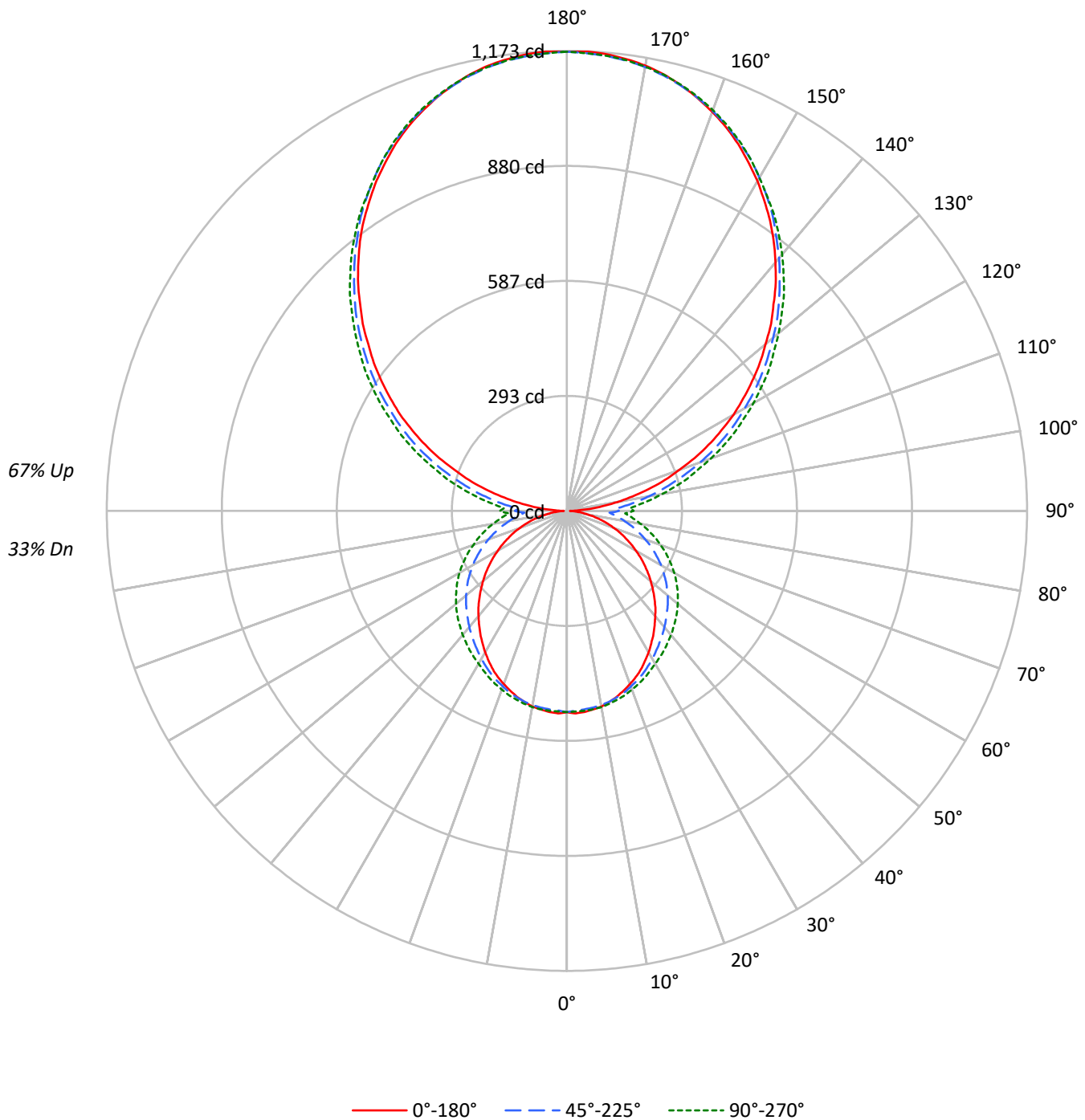
Lumens per Lamp: N/A
Luminaire Lumens: 5235.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	93	88	84	80	84	80	76	73	63	61	59	48	47	45	34	33	32
2	84	77	70	65	76	69	64	59	55	51	48	42	39	37	30	28	26
3	77	67	59	53	69	60	54	49	48	43	40	37	33	31	26	24	22
4	70	59	51	45	62	53	46	41	42	37	33	32	29	26	23	21	19
5	64	52	44	38	57	47	40	35	38	32	28	29	25	22	21	18	16
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14
7	54	42	34	28	49	38	31	26	30	25	21	23	20	17	17	14	12
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11
9	47	34	27	22	42	31	25	20	25	20	17	20	16	13	14	12	10
10	43	31	24	20	39	29	22	18	23	18	15	18	14	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8122	8122	8122
5°	8159	7775	7733
10°	8105	7506	7397
15°	7990	7228	7054
20°	7846	6935	6728
25°	7703	6655	6432
30°	7505	6371	6139
35°	7302	6097	5924
40°	7090	5859	5711
45°	6886	5643	5524
50°	6669	5445	5341
55°	6440	5234	5153
60°	6160	5015	4957
65°	5869	4763	4730
70°	5539	4492	4486
75°	5119	4221	4257
80°	4455	3940	4018
85°	3786	3674	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	0.9
10°-20°	139.5	2.7
20°-30°	211.4	4.0
30°-40°	257.4	4.9
40°-50°	277.0	5.3
50°-60°	269.0	5.1
60°-70°	234.9	4.5
70°-80°	180.8	3.5
80°-90°	124.4	2.4
90°-100°	156.0	3.0
100°-110°	291.3	5.6
110°-120°	434.3	8.3
120°-130°	540.6	10.3
130°-140°	591.1	11.3
140°-150°	572.0	10.9
150°-160°	478.5	9.1
160°-170°	317.3	6.1
170°-180°	110.9	2.1
0°-30°	399.6	7.6
0°-40°	657.0	12.5
0°-60°	1202.9	23.0
0°-90°	1743.0	33.3
90°-120°	881.6	16.8
90°-150°	2585.3	49.4
90°-180°	3492.0	66.7
0°-180°	5235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	515	512	508	512	512	49
15°	491	492	492	499	498	138
25°	446	451	458	467	469	205
35°	384	397	411	428	433	240
45°	315	335	361	384	392	243
55°	242	268	307	334	344	216
65°	165	202	245	276	286	164
75°	92	133	181	213	222	97
85°	27	73	120	152	162	28
90°	8	63	133	160	170	8
95°	57	102	149	177	184	62
105°	216	241	281	309	318	229
115°	398	412	444	465	470	394
125°	577	586	606	623	629	516
135°	745	756	765	780	783	576
145°	903	910	916	922	921	564
155°	1033	1036	1038	1044	1040	475
165°	1124	1122	1122	1129	1124	317
175°	1169	1166	1164	1171	1165	111
180°	1171	1171	1171	1171	1171	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.1	513.1	513.1	513.1	513.1
2.5°	516.9	514.6	509.4	513.1	511.7
5°	514.6	512.4	507.9	512.4	511.7
7.5°	510.9	509.4	505.7	510.9	510.2
10°	506.5	505.0	502.7	508.7	507.9
12.5°	499.0	499.8	498.3	504.2	503.5
15°	490.8	492.3	492.3	499.0	498.3
17.5°	480.4	483.4	485.6	492.3	492.3
20°	470.0	473.7	476.7	484.9	484.9
22.5°	458.9	463.3	467.8	476.0	477.5
25°	446.2	451.4	458.1	467.0	469.3
27.5°	431.3	439.5	447.0	458.1	459.6
30°	416.5	426.1	435.8	447.7	449.9
32.5°	400.1	411.3	423.2	437.3	441.8
35°	384.5	397.1	411.3	427.6	432.8
37.5°	367.4	381.5	399.4	417.2	422.4
40°	350.3	366.6	386.7	406.1	412.8
42.5°	333.9	350.3	374.1	395.6	402.3
45°	315.3	335.4	361.4	384.5	391.9
47.5°	297.5	319.0	348.8	372.6	380.8
50°	278.9	301.9	335.4	360.7	368.9
52.5°	261.0	285.6	321.3	347.3	356.2
55°	241.7	268.5	307.1	333.9	343.6
57.5°	223.1	252.9	291.5	320.5	330.2
60°	203.0	235.0	277.4	305.7	316.1
62.5°	185.2	218.6	261.0	291.5	301.2
65°	165.1	201.5	245.4	275.9	285.6
67.5°	147.3	185.2	229.8	260.3	270.7
70°	127.9	166.6	212.7	244.7	253.6
72.5°	110.1	150.2	197.1	228.3	239.5
75°	91.5	133.1	180.7	212.7	222.4
77.5°	73.6	116.8	165.1	197.1	207.5
80°	55.8	101.1	149.5	180.7	191.1
82.5°	40.9	85.5	134.6	165.8	175.5
85°	26.8	72.9	120.5	151.7	162.1
87.5°	16.4	61.0	108.6	139.1	148.7
90°	8.4	63.4	132.8	160.5	170.4
92.5°	28.4	75.7	122.1	152.1	161.0
95°	57.3	102.2	148.7	177.0	184.0
97.5°	91.2	132.1	179.1	206.6	215.6
100°	130.7	166.1	210.8	238.3	245.5
102.5°	171.5	201.9	246.1	273.8	281.0
105°	216.1	240.7	281.4	309.4	317.6
107.5°	261.6	283.5	320.7	346.8	350.1
110°	304.4	325.1	361.6	385.4	390.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	351.8	369.6	402.8	423.7	429.9
115°	398.2	412.4	443.8	465.1	470.3
117.5°	443.9	457.8	484.1	503.4	507.9
120°	490.3	501.2	523.1	543.9	549.2
122.5°	532.8	543.5	566.1	583.2	587.9
125°	576.6	585.5	606.3	623.4	629.2
127.5°	620.1	630.1	646.3	660.9	664.7
130°	660.6	672.6	686.3	702.2	704.2
132.5°	706.0	715.1	727.3	739.5	742.5
135°	744.8	755.6	765.1	779.7	782.6
137.5°	788.2	797.1	802.9	816.0	817.3
140°	826.8	835.0	841.4	853.3	853.7
142.5°	866.3	874.5	877.4	887.3	887.1
145°	903.1	910.1	916.0	921.5	921.2
147.5°	936.7	945.6	949.6	952.3	950.6
150°	971.3	977.2	981.2	984.2	981.2
152.5°	1002.0	1007.9	1012.8	1016.8	1012.8
155°	1032.6	1035.5	1038.5	1043.5	1040.5
157.5°	1059.3	1061.2	1063.2	1070.1	1065.2
160°	1083.0	1085.0	1085.9	1091.9	1087.9
162.5°	1104.7	1104.7	1105.7	1112.6	1107.7
165°	1123.5	1122.5	1122.5	1129.4	1124.5
167.5°	1140.3	1137.3	1137.3	1144.2	1139.3
170°	1153.1	1150.2	1149.2	1156.1	1150.2
172.5°	1162.0	1159.1	1158.1	1165.0	1159.1
175°	1168.9	1166.0	1164.0	1170.9	1165.0
177.5°	1172.9	1169.9	1168.0	1173.9	1168.0
180°	1170.9	1170.9	1170.9	1170.9	1170.9

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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	10.73	11.49	11.81	12.57	14.06	13.80	14.56	14.88	15.65	17.13
	3H	12.18	12.86	13.27	13.96	15.46	16.38	17.07	17.47	18.16	19.67
	4H	12.65	13.30	13.75	14.40	15.91	17.63	18.28	18.73	19.38	20.89
	6H	12.93	13.53	14.04	14.63	16.15	18.92	19.53	20.03	20.62	22.15
	8H	12.99	13.56	14.10	14.68	16.19	19.58	20.15	20.69	21.27	22.79
	12H	13.00	13.55	14.12	14.65	16.20	20.30	20.85	21.42	21.96	23.50
4H	2H	11.77	12.42	12.87	13.51	15.02	14.12	14.77	15.23	15.87	17.38
	3H	13.47	14.02	14.58	15.14	16.66	16.90	17.45	18.02	18.57	20.10
	4H	14.08	14.59	15.20	15.70	17.25	18.32	18.82	19.43	19.94	21.48
	6H	14.49	14.93	15.62	16.07	17.60	19.78	20.22	20.90	21.35	22.89
	8H	14.60	15.01	15.72	16.14	17.69	20.53	20.94	21.66	22.07	23.62
	12H	14.64	15.01	15.78	16.15	17.71	21.36	21.73	22.50	22.87	24.43
8H	4H	14.87	15.28	15.99	16.40	17.96	18.45	18.86	19.58	19.99	21.54
	6H	15.49	15.84	16.64	17.01	18.55	20.08	20.42	21.22	21.59	23.14
	8H	15.71	16.02	16.86	17.16	18.73	20.97	21.27	22.12	22.42	23.98
	12H	15.84	16.11	17.00	17.26	18.86	21.95	22.22	23.11	23.37	24.97
12H	4H	15.06	15.43	16.20	16.57	18.13	18.42	18.80	19.56	19.93	21.49
	6H	15.83	16.13	16.98	17.28	18.85	20.10	20.40	21.25	21.55	23.12
	8H	16.13	16.39	17.28	17.54	19.14	21.02	21.29	22.18	22.44	24.04