

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: P999246

Luminaire Tested: SA2XXDIP-B865D925UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999246
REPORT IS A COMBINATION OF REPORTS P984995 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B865D925UB35-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

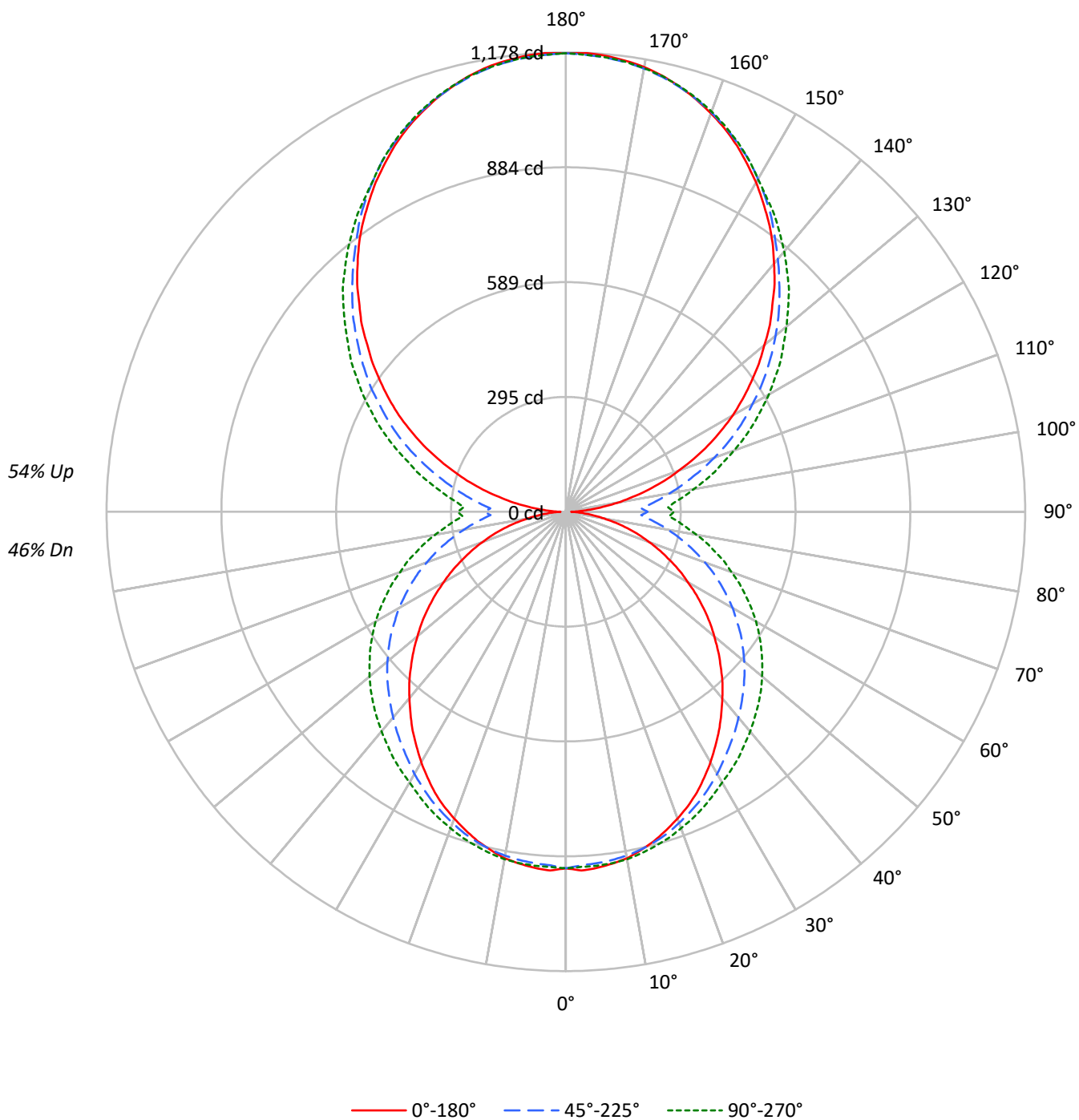
Lumens per Lamp: N/A
Luminaire Lumens: 6778.9 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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

TEST NUMBER: P999246

CATALOG NUMBER: SA2XXDIP-B865D925UB35-4F0-XX-W2A-D1

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14470	14470	14470
5°	14536	13853	13775
10°	14438	13373	13178
15°	14234	12876	12565
20°	13977	12355	11985
25°	13723	11856	11458
30°	13368	11348	10936
35°	13007	10860	10552
40°	12629	10437	10173
45°	12268	10054	9841
50°	11880	9701	9513
55°	11474	9326	9180
60°	10976	8935	8830
65°	10455	8485	8425
70°	9870	8002	7993
75°	9118	7519	7581
80°	7936	7018	7158
85°	6738	6544	6791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12268 cd/sqm

TEST NUMBER: P999246

CATALOG NUMBER: SA2XXDIP-B865D925UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.3
10°-20°	248.5	3.7
20°-30°	376.6	5.6
30°-40°	458.6	6.8
40°-50°	493.4	7.3
50°-60°	479.2	7.1
60°-70°	418.5	6.2
70°-80°	322.1	4.8
80°-90°	219.0	3.2
90°-100°	221.6	3.3
100°-110°	339.9	5.0
110°-120°	467.5	6.9
120°-130°	560.4	8.3
130°-140°	600.9	8.9
140°-150°	575.7	8.5
150°-160°	480.5	7.1
160°-170°	318.7	4.7
170°-180°	111.4	1.6
0°-30°	711.8	10.5
0°-40°	1170.4	17.3
0°-60°	2142.9	31.6
0°-90°	3102.5	45.8
90°-120°	1028.9	15.2
90°-150°	2765.9	40.8
90°-180°	3676.0	54.2
0°-180°	6778.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	917	913	905	913	912	87
15°	874	877	877	889	888	246
25°	795	804	816	832	836	366
35°	685	708	733	762	771	428
45°	562	598	644	685	698	434
55°	431	478	547	595	612	385
65°	294	359	437	492	509	292
75°	163	237	322	379	396	172
85°	48	130	215	270	289	50
90°	14	103	210	261	278	12
95°	62	134	216	266	280	66
105°	220	261	332	381	395	233
115°	402	423	480	519	531	397
125°	580	589	628	661	672	519
135°	748	759	775	802	809	579
145°	907	914	920	929	932	567
155°	1037	1040	1043	1048	1045	477
165°	1128	1127	1127	1134	1129	318
175°	1174	1171	1169	1176	1170	112
180°	1176	1176	1176	1176	1176	

TEST NUMBER: P999246

CATALOG NUMBER: SA2XXDIP-B865D925UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.1	914.1	914.1	914.1	914.1
2.5°	920.8	916.8	907.5	914.1	911.5
5°	916.8	912.8	904.9	912.8	911.5
7.5°	910.2	907.5	900.9	910.2	908.8
10°	902.2	899.6	895.6	906.2	904.9
12.5°	889.0	890.3	887.6	898.2	896.9
15°	874.4	877.0	877.0	889.0	887.6
17.5°	855.8	861.1	865.1	877.0	877.0
20°	837.3	843.9	849.2	863.8	863.8
22.5°	817.4	825.4	833.3	847.9	850.5
25°	794.9	804.2	816.1	832.0	836.0
27.5°	768.4	783.0	796.2	816.1	818.7
30°	741.9	759.1	776.3	797.5	801.5
32.5°	712.8	732.6	753.8	779.0	786.9
35°	684.9	707.5	732.6	761.8	771.0
37.5°	654.5	679.6	711.4	743.2	752.5
40°	624.0	653.1	688.9	723.4	735.3
42.5°	594.8	624.0	666.4	704.8	716.7
45°	561.7	597.5	643.9	684.9	698.2
47.5°	529.9	568.4	621.3	663.7	678.3
50°	496.8	537.9	597.5	642.5	657.1
52.5°	465.0	508.7	572.3	618.7	634.6
55°	430.6	478.3	547.2	594.8	612.1
57.5°	397.4	450.4	519.3	571.0	588.2
60°	361.7	418.6	494.2	544.5	563.1
62.5°	329.9	389.5	465.0	519.3	536.6
65°	294.1	359.0	437.2	491.5	508.7
67.5°	262.3	329.9	409.4	463.7	482.2
70°	227.9	296.8	378.9	435.9	451.8
72.5°	196.1	267.6	351.1	406.7	426.6
75°	163.0	237.1	321.9	378.9	396.1
77.5°	131.2	208.0	294.1	351.1	369.6
80°	99.4	180.2	266.3	321.9	340.5
82.5°	72.9	152.4	239.8	295.4	312.7
85°	47.7	129.8	214.6	270.3	288.8
87.5°	29.1	108.6	193.4	247.7	265.0
90°	14.2	103.0	209.6	260.6	277.5
92.5°	33.7	111.9	193.8	246.4	262.3
95°	62.2	134.4	215.9	266.2	280.1
97.5°	95.6	161.5	242.3	291.3	307.2
100°	135.3	192.3	269.4	318.4	332.1
102.5°	175.6	225.4	300.8	349.5	363.1
105°	220.0	261.3	332.2	380.6	395.2
107.5°	265.6	301.4	367.7	413.7	423.3
110°	308.0	340.4	405.3	447.7	459.3

TEST NUMBER: P999246

CATALOG NUMBER: SA2XXDIP-B865D925UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	355.6	382.7	442.7	482.1	494.7
115°	402.2	422.8	480.4	519.1	530.7
117.5°	447.6	466.1	516.8	553.6	563.8
120°	494.2	507.5	552.5	589.6	601.1
122.5°	536.9	548.1	592.1	625.0	634.9
125°	580.1	589.1	628.5	661.3	672.2
127.5°	623.8	633.4	665.3	694.4	703.3
130°	664.5	676.1	701.9	731.7	738.4
132.5°	710.1	718.8	739.7	765.2	772.8
135°	748.5	759.4	774.7	801.5	809.2
137.5°	792.2	801.1	809.7	833.9	839.2
140°	830.9	838.5	846.1	867.3	871.3
142.5°	870.6	878.2	881.2	898.1	900.7
145°	907.0	913.9	919.9	928.8	931.5
147.5°	940.7	949.7	953.6	956.9	957.0
150°	975.5	981.4	985.4	988.4	985.4
152.5°	1006.2	1012.2	1017.1	1021.1	1017.1
155°	1037.0	1040.0	1042.9	1047.9	1044.9
157.5°	1063.8	1065.8	1067.8	1074.7	1069.7
160°	1087.6	1089.6	1090.6	1096.5	1092.6
162.5°	1109.4	1109.4	1110.4	1117.4	1112.4
165°	1128.3	1127.3	1127.3	1134.2	1129.3
167.5°	1145.2	1142.2	1142.2	1149.1	1144.2
170°	1158.1	1155.1	1154.1	1161.0	1155.1
172.5°	1167.0	1164.0	1163.0	1170.0	1164.0
175°	1173.9	1171.0	1169.0	1175.9	1170.0
177.5°	1177.9	1174.9	1172.9	1178.9	1172.9
180°	1175.9	1175.9	1175.9	1175.9	1175.9

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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	14.09	14.96	15.07	15.96	17.29	17.17	18.04	18.15	19.04	20.37
	3H	15.55	16.34	16.55	17.35	18.70	19.76	20.54	20.75	21.55	22.90
	4H	16.03	16.78	17.03	17.79	19.15	21.01	21.76	22.02	22.77	24.13
	6H	16.31	17.01	17.33	18.02	19.39	22.31	23.00	23.32	24.02	25.39
	8H	16.37	17.03	17.39	18.07	19.43	22.97	23.63	23.99	24.66	26.03
	12H	16.39	17.02	17.42	18.05	19.44	23.69	24.32	24.72	25.35	26.74
4H	2H	15.14	15.89	16.15	16.91	18.26	17.50	18.25	18.51	19.26	20.61
	3H	16.85	17.49	17.87	18.53	19.90	20.29	20.92	21.31	21.97	23.33
	4H	17.47	18.06	18.50	19.09	20.48	21.71	22.29	22.73	23.33	24.71
	6H	17.89	18.40	18.93	19.46	20.84	23.18	23.68	24.21	24.74	26.13
	8H	18.00	18.48	19.04	19.53	20.93	23.93	24.41	24.97	25.46	26.86
	12H	18.04	18.48	19.10	19.54	20.95	24.76	25.20	25.82	26.26	27.67
8H	4H	18.27	18.74	19.30	19.79	21.19	21.85	22.33	22.89	23.38	24.78
	6H	18.90	19.30	19.96	20.39	21.79	23.48	23.88	24.54	24.97	26.37
	8H	19.12	19.48	20.19	20.55	21.97	24.37	24.73	25.44	25.80	27.22
	12H	19.26	19.57	20.33	20.64	22.10	25.37	25.68	26.44	26.75	28.21
12H	4H	18.46	18.90	19.52	19.96	21.37	21.83	22.26	22.88	23.32	24.73
	6H	19.23	19.59	20.30	20.66	22.08	23.51	23.86	24.57	24.94	26.35
	8H	19.54	19.85	20.61	20.92	22.38	24.44	24.75	25.51	25.82	27.28