

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: P999225

Luminaire Tested: SA2XXDIP-B865D925UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999225
REPORT IS A COMBINATION OF REPORTS P984974 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B865D925UB2750-4F0-XX-W2A-D_3500K
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

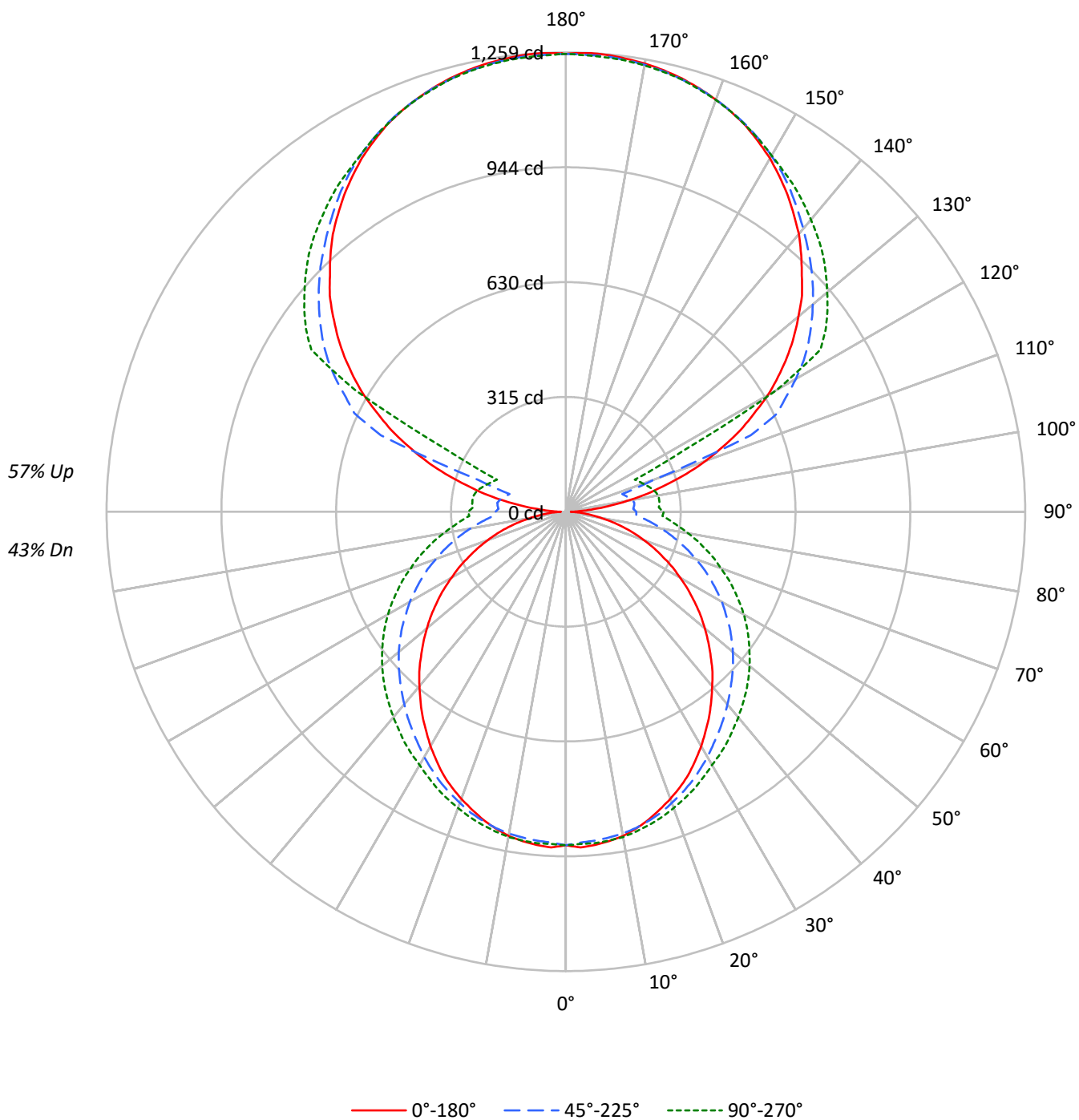
Lumens per Lamp: N/A
Luminaire Lumens: 7169.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50
1	95	90	86	82	86	82	79	75	68	65	63	54	52	51	42	41	40
2	86	78	71	66	78	71	66	61	59	54	51	47	44	41	36	34	32
3	78	68	60	54	71	62	55	50	51	46	42	41	37	34	32	29	27
4	71	60	52	45	65	55	48	42	45	40	35	36	32	29	28	25	23
5	65	53	45	39	59	49	41	36	40	35	30	32	28	25	25	22	20
6	60	47	39	33	54	44	36	31	36	30	26	29	25	22	23	20	17
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	21	18	15
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	13
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.2
10°-20°	248.5	3.5
20°-30°	376.6	5.3
30°-40°	458.6	6.4
40°-50°	493.4	6.9
50°-60°	479.2	6.7
60°-70°	418.5	5.8
70°-80°	322.1	4.5
80°-90°	217.9	3.0
90°-100°	190.2	2.7
100°-110°	262.9	3.7
110°-120°	480.8	6.7
120°-130°	718.5	10.0
130°-140°	737.5	10.3
140°-150°	672.7	9.4
150°-160°	538.5	7.5
160°-170°	347.0	4.8
170°-180°	119.4	1.7
0°-30°	711.8	9.9
0°-40°	1170.4	16.3
0°-60°	2142.9	29.9
0°-90°	3101.3	43.3
90°-120°	934.0	13.0
90°-150°	3062.6	42.7
90°-180°	4068.0	56.7
0°-180°	7169.0	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	101	193	251	268	13
95°	70	102	188	243	258	78
105°	283	348	169	226	244	302
115°	527	557	640	259	208	519
125°	741	753	812	854	869	661
135°	915	929	951	988	996	707
145°	1060	1059	1074	1088	1091	663
155°	1167	1159	1170	1175	1168	538
165°	1229	1224	1227	1233	1227	347
175°	1258	1251	1253	1259	1250	120
180°	1255	1255	1255	1255	1255	

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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°	14.1	101.0	193.1	250.6	268.3
92.5°	34.6	101.2	184.8	238.2	255.0
95°	69.6	102.0	187.8	242.7	257.6
97.5°	115.5	98.0	189.4	241.1	257.9
100°	170.0	94.6	184.3	240.5	256.9
102.5°	228.5	270.5	176.8	234.5	251.8
105°	282.6	348.3	169.3	225.7	243.9
107.5°	347.1	401.6	161.9	216.9	235.1
110°	407.5	453.1	255.6	207.2	225.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	465.7	503.2	548.7	199.7	217.0
115°	527.4	557.4	639.7	259.0	208.3
117.5°	579.7	608.4	679.5	589.4	364.7
120°	639.6	658.5	727.9	775.9	667.8
122.5°	690.4	706.3	773.4	814.7	827.5
125°	740.8	752.6	812.3	854.4	869.0
127.5°	788.0	799.4	848.9	891.0	903.8
130°	832.5	845.7	883.5	925.3	935.0
132.5°	877.9	888.4	918.3	957.0	966.7
135°	914.7	929.3	950.7	987.6	996.4
137.5°	954.7	965.6	981.3	1015.6	1022.1
140°	993.7	999.7	1012.3	1041.7	1045.1
142.5°	1026.4	1031.5	1043.3	1066.5	1068.5
145°	1059.6	1058.7	1074.2	1088.4	1090.6
147.5°	1089.6	1086.9	1102.3	1108.2	1108.5
150°	1118.7	1112.3	1126.8	1132.3	1127.7
152.5°	1143.2	1135.9	1149.5	1155.0	1148.6
155°	1166.8	1158.6	1169.5	1175.0	1167.7
157.5°	1185.8	1178.6	1186.8	1193.1	1185.8
160°	1202.2	1196.7	1202.2	1207.6	1201.3
162.5°	1216.7	1211.3	1215.8	1222.2	1214.0
165°	1229.4	1224.0	1226.7	1233.1	1226.7
167.5°	1239.4	1234.0	1236.7	1243.1	1234.9
170°	1247.6	1242.1	1244.0	1250.3	1242.1
172.5°	1253.0	1247.6	1249.4	1255.8	1247.6
175°	1257.6	1251.2	1253.0	1259.4	1250.3
177.5°	1259.4	1253.0	1253.9	1260.3	1252.1
180°	1254.9	1254.9	1254.9	1254.9	1254.9

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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	13.85	14.69	14.85	15.71	17.07	16.92	17.77	17.92	18.79	20.15
	3H	15.31	16.07	16.32	17.10	18.48	19.51	20.27	20.52	21.30	22.68
	4H	15.78	16.51	16.80	17.54	18.93	20.76	21.49	21.79	22.52	23.91
	6H	16.06	16.74	17.10	17.77	19.17	22.06	22.73	23.09	23.77	25.17
	8H	16.12	16.76	17.16	17.82	19.21	22.72	23.36	23.76	24.41	25.81
	12H	16.14	16.75	17.18	17.80	19.22	23.44	24.05	24.49	25.10	26.52
4H	2H	14.89	15.62	15.93	16.65	18.04	17.25	17.98	18.28	19.01	20.40
	3H	16.60	17.22	17.64	18.28	19.68	20.04	20.65	21.08	21.71	23.11
	4H	17.22	17.79	18.27	18.84	20.26	21.46	22.02	22.50	23.07	24.50
	6H	17.64	18.13	18.69	19.20	20.62	22.92	23.42	23.98	24.49	25.91
	8H	17.75	18.21	18.80	19.27	20.71	23.68	24.14	24.74	25.21	26.64
	12H	17.79	18.21	18.86	19.29	20.73	24.51	24.93	25.58	26.01	27.45
8H	4H	18.01	18.47	19.07	19.54	20.97	21.60	22.06	22.65	23.13	24.56
	6H	18.64	19.03	19.72	20.14	21.57	23.23	23.62	24.31	24.72	26.15
	8H	18.87	19.21	19.95	20.30	21.75	24.12	24.46	25.20	25.55	27.00
	12H	19.00	19.30	20.09	20.39	21.88	25.11	25.41	26.20	26.50	27.99
12H	4H	18.21	18.63	19.28	19.71	21.15	21.57	21.99	22.65	23.07	24.51
	6H	18.98	19.32	20.06	20.41	21.86	23.25	23.60	24.34	24.69	26.13
	8H	19.28	19.59	20.37	20.67	22.16	24.18	24.48	25.27	25.57	27.06