

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: P999224

Luminaire Tested: SA2XXDIP-B865D925UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999224
REPORT IS A COMBINATION OF REPORTS P984973 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_3000K
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

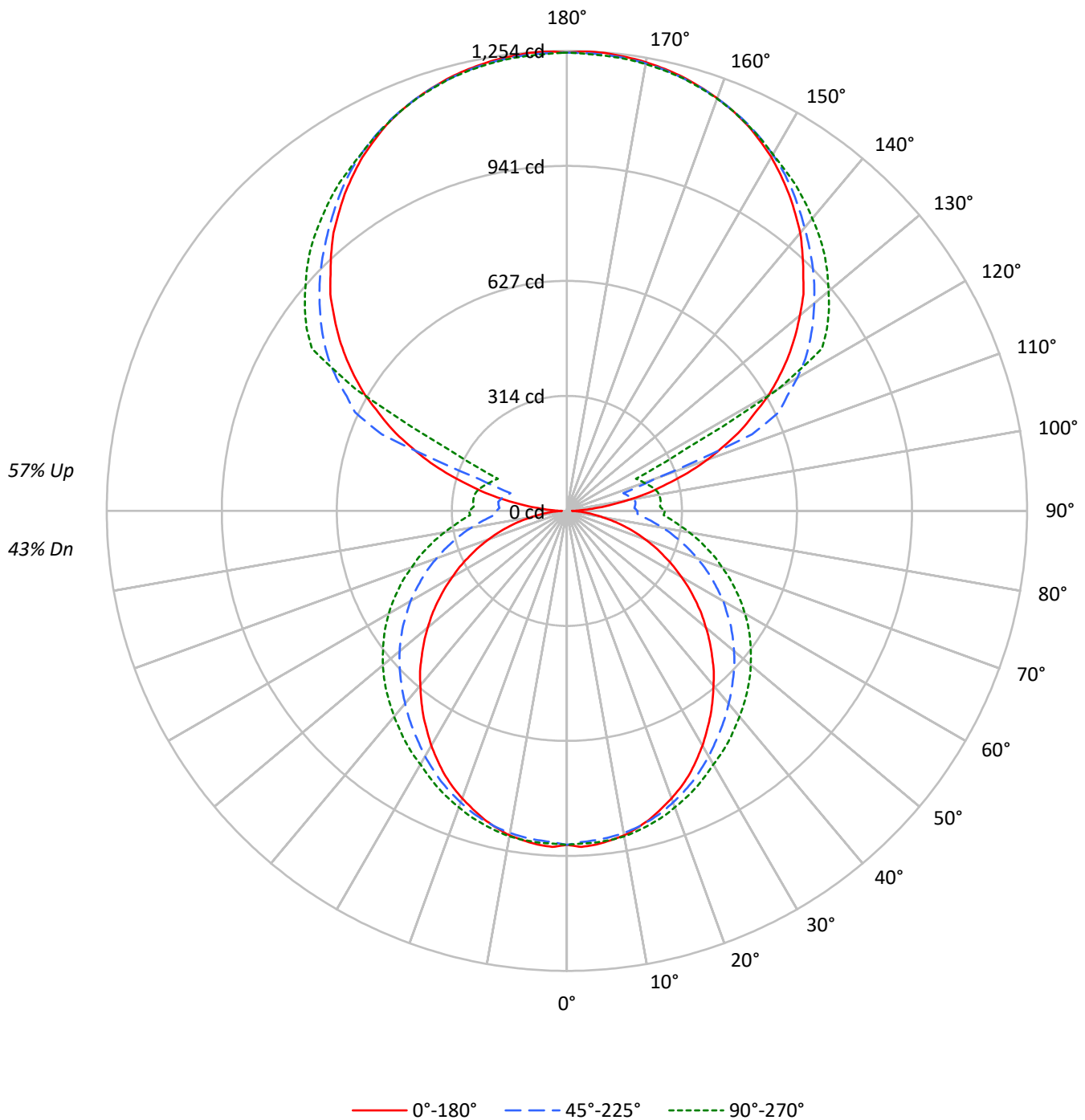
Lumens per Lamp: N/A
Luminaire Lumens: 7138.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	14408	14408	14408
5°	14473	13793	13716
10°	14375	13315	13121
15°	14172	12822	12511
20°	13917	12303	11934
25°	13665	11806	11409
30°	13310	11300	10889
35°	12952	10814	10507
40°	12575	10392	10129
45°	12215	10011	9799
50°	11830	9659	9472
55°	11423	9285	9140
60°	10927	8895	8791
65°	10409	8448	8389
70°	9826	7969	7957
75°	9079	7486	7549
80°	7896	6986	7127
85°	6710	6516	6763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	1.2
10°-20°	247.5	3.5
20°-30°	375.0	5.3
30°-40°	456.6	6.4
40°-50°	491.3	6.9
50°-60°	477.1	6.7
60°-70°	416.7	5.8
70°-80°	320.7	4.5
80°-90°	217.0	3.0
90°-100°	189.4	2.7
100°-110°	261.8	3.7
110°-120°	478.8	6.7
120°-130°	715.4	10.0
130°-140°	734.3	10.3
140°-150°	669.8	9.4
150°-160°	536.2	7.5
160°-170°	345.5	4.8
170°-180°	118.9	1.7
0°-30°	708.7	9.9
0°-40°	1165.3	16.3
0°-60°	2133.7	29.9
0°-90°	3088.0	43.3
90°-120°	929.9	13.0
90°-150°	3049.4	42.7
90°-180°	4050.0	56.7
0°-180°	7138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	913	909	901	909	908	87
15°	871	873	873	885	884	245
25°	792	801	813	828	832	364
35°	682	704	730	758	768	426
45°	559	595	641	682	695	432
55°	429	476	545	592	609	383
65°	293	358	435	489	506	291
75°	162	236	320	377	394	172
85°	48	129	214	269	288	50
90°	14	100	192	250	267	13
95°	69	102	187	242	257	78
105°	281	347	168	225	243	301
115°	525	555	637	258	207	517
125°	738	749	809	851	865	658
135°	911	925	947	983	992	704
145°	1055	1054	1070	1084	1086	660
155°	1162	1154	1164	1170	1163	535
165°	1224	1219	1221	1228	1221	346
175°	1252	1246	1248	1254	1245	119
180°	1249	1249	1249	1249	1249	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.2	910.2	910.2	910.2	910.2
2.5°	916.8	912.8	903.6	910.2	907.6
5°	912.8	908.9	901.0	908.9	907.6
7.5°	906.2	903.6	897.0	906.2	904.9
10°	898.3	895.7	891.7	902.3	901.0
12.5°	885.1	886.5	883.8	894.4	893.1
15°	870.6	873.3	873.3	885.1	883.8
17.5°	852.2	857.4	861.4	873.3	873.3
20°	833.7	840.3	845.6	860.1	860.1
22.5°	813.9	821.8	829.7	844.2	846.9
25°	791.5	800.7	812.6	828.4	832.4
27.5°	765.1	779.6	792.8	812.6	815.2
30°	738.7	755.9	773.0	794.1	798.1
32.5°	709.7	729.5	750.6	775.6	783.6
35°	682.0	704.4	729.5	758.5	767.7
37.5°	651.6	676.7	708.4	740.0	749.3
40°	621.3	650.3	685.9	720.2	732.1
42.5°	592.3	621.3	663.5	701.8	713.6
45°	559.3	594.9	641.1	682.0	695.2
47.5°	527.7	565.9	618.7	660.9	675.4
50°	494.7	535.6	594.9	639.8	654.3
52.5°	463.0	506.5	569.9	616.0	631.9
55°	428.7	476.2	544.8	592.3	609.4
57.5°	395.7	448.5	517.1	568.5	585.7
60°	360.1	416.8	492.0	542.2	560.6
62.5°	328.5	387.8	463.0	517.1	534.2
65°	292.8	357.5	435.3	489.4	506.5
67.5°	261.2	328.5	407.6	461.7	480.2
70°	226.9	295.5	377.3	434.0	449.8
72.5°	195.2	266.5	349.6	405.0	424.8
75°	162.3	236.1	320.5	377.3	394.4
77.5°	130.6	207.1	292.8	349.6	368.0
80°	98.9	179.4	265.1	320.5	339.0
82.5°	72.6	151.7	238.8	294.2	311.3
85°	47.5	129.3	213.7	269.1	287.6
87.5°	29.0	108.2	192.6	246.7	263.8
90°	14.1	100.5	192.2	249.5	267.1
92.5°	34.5	100.8	184.0	237.2	253.9
95°	69.4	101.5	187.0	241.6	256.6
97.5°	115.0	97.6	188.6	240.1	256.8
100°	169.2	94.2	183.4	239.5	255.8
102.5°	227.6	269.3	176.0	233.5	250.7
105°	281.4	346.9	168.5	224.7	242.8
107.5°	345.6	399.9	161.2	216.0	234.1
110°	405.8	451.2	254.5	206.3	224.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	463.7	501.0	546.4	198.9	216.1
115°	525.1	555.0	636.9	257.9	207.3
117.5°	577.2	605.7	676.5	586.8	363.2
120°	636.8	655.6	724.7	772.4	664.9
122.5°	687.5	703.2	770.1	811.1	823.9
125°	737.6	749.3	808.8	850.8	865.3
127.5°	784.6	796.0	845.1	887.2	900.0
130°	828.9	842.1	879.7	921.4	931.0
132.5°	874.1	884.6	914.3	952.7	962.4
135°	910.8	925.2	946.6	983.3	992.1
137.5°	950.6	961.4	977.0	1011.2	1017.7
140°	989.4	995.4	1007.9	1037.1	1040.6
142.5°	1022.0	1027.0	1038.8	1061.8	1063.9
145°	1055.0	1054.1	1069.5	1083.7	1085.8
147.5°	1084.9	1082.2	1097.5	1103.3	1103.7
150°	1113.8	1107.5	1121.9	1127.4	1122.8
152.5°	1138.2	1131.0	1144.5	1150.0	1143.6
155°	1161.7	1153.6	1164.4	1169.8	1162.6
157.5°	1180.7	1173.5	1181.6	1187.9	1180.7
160°	1197.0	1191.5	1197.0	1202.4	1196.1
162.5°	1211.4	1206.0	1210.5	1216.9	1208.7
165°	1224.1	1218.7	1221.4	1227.7	1221.4
167.5°	1234.0	1228.6	1231.3	1237.6	1229.5
170°	1242.2	1236.7	1238.6	1244.9	1236.7
172.5°	1247.6	1242.2	1244.0	1250.3	1242.2
175°	1252.1	1245.8	1247.6	1253.9	1244.9
177.5°	1253.9	1247.6	1248.5	1254.8	1246.7
180°	1249.4	1249.4	1249.4	1249.4	1249.4

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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	13.83	14.68	14.83	15.70	17.06	16.91	17.75	17.91	18.77	20.13
	3H	15.29	16.06	16.30	17.08	18.46	19.49	20.26	20.51	21.29	22.67
	4H	15.77	16.49	16.79	17.52	18.91	20.75	21.47	21.77	22.51	23.89
	6H	16.05	16.72	17.08	17.76	19.16	22.04	22.72	23.08	23.75	25.15
	8H	16.11	16.75	17.15	17.80	19.20	22.70	23.34	23.74	24.40	25.79
	12H	16.12	16.74	17.17	17.78	19.20	23.43	24.04	24.47	25.08	26.51
4H	2H	14.88	15.61	15.91	16.64	18.03	17.23	17.96	18.27	18.99	20.38
	3H	16.59	17.20	17.63	18.26	19.66	20.02	20.64	21.06	21.70	23.10
	4H	17.21	17.78	18.25	18.83	20.25	21.44	22.01	22.49	23.06	24.48
	6H	17.62	18.12	18.68	19.19	20.61	22.91	23.40	23.96	24.47	25.89
	8H	17.73	18.19	18.79	19.26	20.69	23.66	24.13	24.72	25.19	26.63
	12H	17.77	18.19	18.85	19.27	20.71	24.49	24.91	25.57	25.99	27.43
8H	4H	18.00	18.46	19.05	19.53	20.96	21.58	22.05	22.64	23.11	24.55
	6H	18.63	19.02	19.71	20.12	21.55	23.21	23.60	24.29	24.71	26.14
	8H	18.85	19.19	19.94	20.28	21.73	24.10	24.45	25.19	25.54	26.98
	12H	18.98	19.29	20.07	20.38	21.86	25.10	25.40	26.19	26.49	27.97
12H	4H	18.19	18.61	19.27	19.70	21.13	21.56	21.98	22.63	23.06	24.50
	6H	18.96	19.31	20.05	20.40	21.85	23.24	23.58	24.32	24.67	26.12
	8H	19.27	19.57	20.36	20.66	22.14	24.17	24.47	25.26	25.56	27.04

END OF REPORT