

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: P999241

Luminaire Tested: SA2XXDIP-B865D925UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999241
REPORT IS A COMBINATION OF REPORTS P984990 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B865D925UB30-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

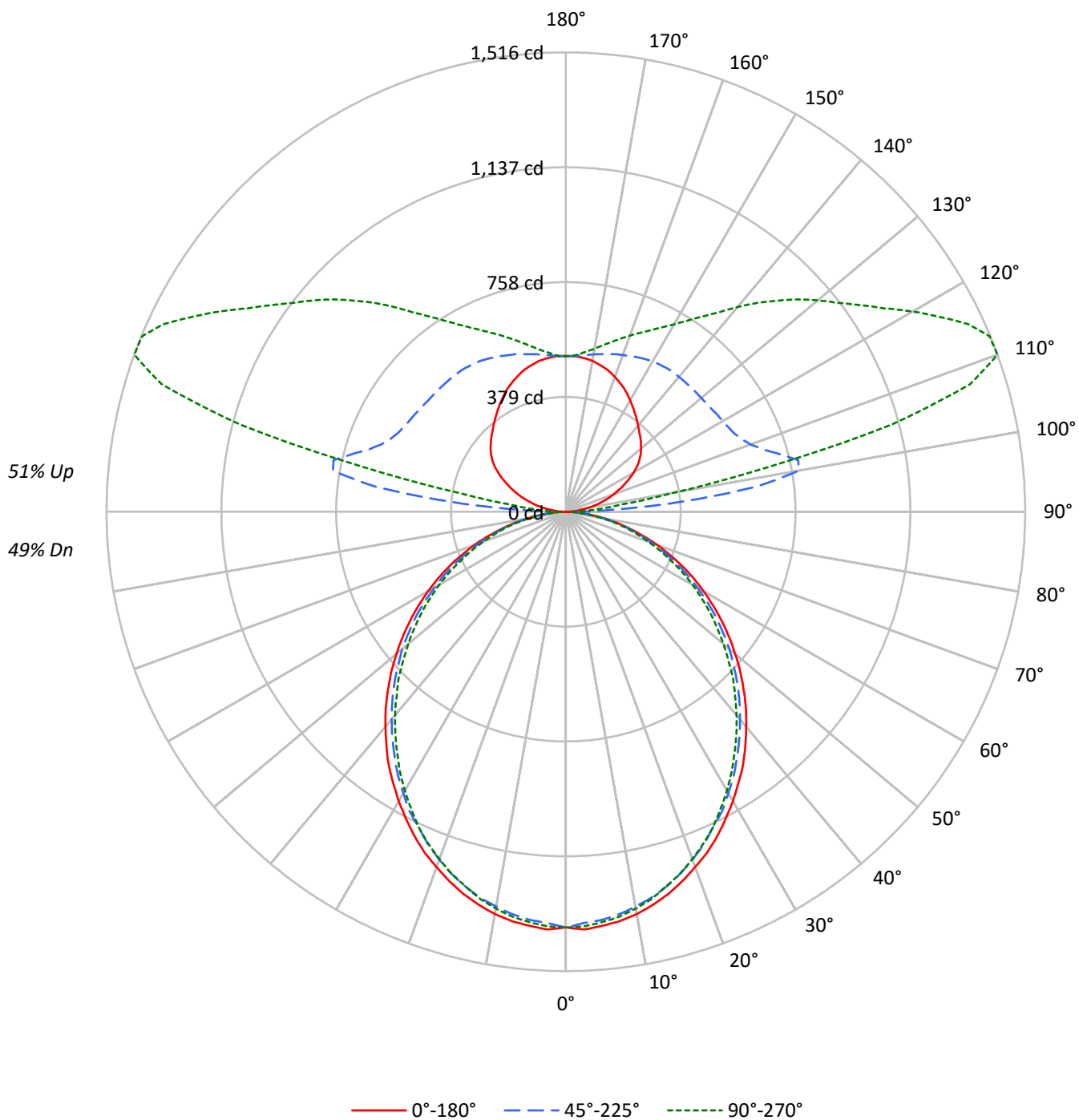
Lumens per Lamp: N/A
Luminaire Lumens: 7075.2 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	22	20
8	54	42	34	28	50	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21715	21715	21715
5°	21750	20698	20551
10°	21572	19755	19363
15°	21257	18804	18112
20°	20830	17770	16928
25°	20403	16691	15747
30°	19868	15677	14505
35°	19364	14605	13287
40°	18739	13549	12135
45°	18121	12501	11007
50°	17443	11436	9834
55°	16728	10296	8724
60°	15931	9062	7571
65°	15052	7808	6357
70°	13936	6435	5134
75°	12396	4961	3964
80°	10531	3370	2550
85°	7642	1567	1086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18121 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	1.8
10°-20°	363.3	5.1
20°-30°	533.8	7.5
30°-40°	620.0	8.8
40°-50°	619.2	8.8
50°-60°	540.0	7.6
60°-70°	399.1	5.6
70°-80°	225.8	3.2
80°-90°	62.9	0.9
90°-100°	208.3	2.9
100°-110°	704.1	10.0
110°-120°	740.1	10.5
120°-130°	608.6	8.6
130°-140°	489.0	6.9
140°-150°	369.4	5.2
150°-160°	259.7	3.7
160°-170°	152.9	2.2
170°-180°	49.7	0.7
0°-30°	1026.2	14.5
0°-40°	1646.2	23.3
0°-60°	2805.4	39.7
0°-90°	3493.3	49.4
90°-120°	1652.4	23.4
90°-150°	3119.5	44.1
90°-180°	3582.0	50.6
0°-180°	7075.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1372	1366	1352	1362	1360	130
15°	1306	1298	1281	1286	1279	368
25°	1182	1171	1149	1152	1149	544
35°	1020	1006	985	977	971	637
45°	830	820	801	786	781	640
55°	628	620	604	588	582	561
65°	423	416	402	390	384	419
75°	222	219	212	204	207	236
85°	54	53	51	48	46	60
90°	1	13	34	32	33	6
95°	35	85	387	146	113	36
105°	120	182	732	1309	1113	128
115°	212	268	612	1264	1465	211
125°	296	351	589	1024	1188	263
135°	348	415	582	861	985	269
145°	397	456	579	719	786	249
155°	452	488	562	636	661	208
165°	492	507	538	571	580	139
175°	513	513	518	524	523	49
180°	514	514	514	514	514	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.8	1371.8	1371.8	1371.8	1371.8
2.5°	1379.7	1373.1	1358.6	1371.8	1369.1
5°	1371.8	1366.5	1352.0	1362.5	1359.9
7.5°	1362.5	1354.6	1340.1	1350.7	1348.0
10°	1348.0	1338.8	1323.0	1333.5	1329.6
12.5°	1328.2	1320.3	1304.5	1311.1	1308.5
15°	1305.8	1297.9	1280.8	1286.0	1279.4
17.5°	1278.1	1270.2	1253.1	1259.7	1253.1
20°	1247.8	1239.9	1221.4	1225.4	1220.1
22.5°	1217.4	1205.6	1188.4	1188.4	1185.8
25°	1181.8	1171.3	1148.9	1151.5	1148.9
27.5°	1142.3	1133.0	1115.9	1111.9	1105.3
30°	1102.7	1092.1	1072.4	1068.4	1063.1
32.5°	1060.5	1052.6	1031.5	1023.6	1018.3
35°	1019.6	1006.4	985.3	977.4	970.8
37.5°	973.4	961.6	940.5	931.2	924.6
40°	925.9	915.4	894.3	882.4	877.1
42.5°	879.8	869.2	848.1	834.9	827.0
45°	829.7	820.4	800.6	786.1	780.9
47.5°	780.9	771.6	750.5	736.0	728.1
50°	729.4	722.8	704.4	685.9	679.3
52.5°	679.3	670.1	652.9	638.4	629.2
55°	627.8	619.9	604.1	588.3	581.7
57.5°	576.4	569.8	552.7	536.8	531.6
60°	525.0	519.7	501.2	486.7	482.8
62.5°	474.8	465.6	452.4	439.2	434.0
65°	423.4	415.5	402.3	390.4	383.8
67.5°	370.6	364.0	352.2	342.9	337.7
70°	321.8	316.6	304.7	295.5	290.2
72.5°	271.7	266.4	259.8	250.6	246.7
75°	221.6	219.0	212.4	204.4	207.1
77.5°	176.7	171.5	168.8	164.9	160.9
80°	131.9	130.6	127.9	124.0	121.3
82.5°	89.7	89.7	88.4	83.1	83.1
85°	54.1	52.8	51.4	47.5	46.2
87.5°	23.7	21.1	18.5	14.5	13.2
90°	1.0	13.4	33.6	32.1	32.6
92.5°	14.8	47.0	152.1	70.2	60.3
95°	34.6	84.9	387.3	146.2	112.6
97.5°	51.4	112.2	631.3	293.5	188.7
100°	76.1	137.4	780.5	584.4	353.7
102.5°	98.8	160.0	785.4	988.0	689.6
105°	120.5	181.8	732.1	1308.6	1113.4
107.5°	144.2	203.6	682.7	1424.6	1399.0
110°	168.0	225.8	649.1	1405.9	1515.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.7	247.0	627.4	1342.2	1513.6
115°	212.4	268.2	612.5	1264.1	1465.1
117.5°	236.1	289.5	604.6	1189.5	1392.0
120°	257.9	310.2	597.7	1122.8	1321.9
122.5°	278.6	331.5	593.8	1071.0	1248.8
125°	296.4	350.8	588.8	1024.0	1188.5
127.5°	311.2	369.0	585.9	984.0	1132.2
130°	324.1	385.3	583.9	943.5	1085.8
132.5°	335.9	401.1	582.9	901.5	1037.4
135°	347.8	415.0	581.9	860.6	985.0
137.5°	358.6	426.8	581.9	819.0	934.6
140°	371.5	437.6	580.9	782.4	882.2
142.5°	384.3	446.6	580.9	747.4	829.9
145°	397.2	456.4	578.9	718.8	786.4
147.5°	411.0	464.4	576.0	693.6	747.9
150°	424.8	472.2	573.0	671.8	714.3
152.5°	438.7	480.2	568.1	653.5	685.6
155°	451.5	487.6	562.2	635.8	660.9
157.5°	462.4	493.5	556.2	619.0	639.2
160°	473.2	499.4	550.3	602.2	618.5
162.5°	484.1	503.8	545.4	586.3	598.7
165°	492.0	506.8	538.4	571.0	579.9
167.5°	498.9	509.8	532.5	557.2	562.2
170°	505.8	511.3	527.6	544.4	546.3
172.5°	509.8	512.8	521.6	533.0	533.5
175°	512.8	513.2	517.7	524.1	522.6
177.5°	514.7	513.7	513.7	517.7	514.7
180°	513.7	513.7	513.7	513.7	513.7

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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	15.87	16.73	16.83	17.70	18.98	16.65	17.51	17.61	18.49	19.77
	3H	17.21	17.97	18.18	18.96	20.26	18.28	19.05	19.25	20.03	21.33
	4H	17.61	18.34	18.60	19.33	20.64	18.87	19.60	19.86	20.59	21.90
	6H	17.83	18.50	18.83	19.50	20.82	19.27	19.94	20.27	20.94	22.26
	8H	17.86	18.50	18.87	19.51	20.83	19.38	20.02	20.39	21.03	22.35
	12H	17.85	18.46	18.86	19.46	20.81	19.43	20.03	20.44	21.04	22.38
4H	2H	16.34	17.07	17.33	18.06	19.37	16.98	17.71	17.98	18.70	20.01
	3H	17.86	18.46	18.86	19.48	20.81	18.76	19.37	19.76	20.39	21.71
	4H	18.36	18.92	19.37	19.93	21.28	19.44	20.00	20.45	21.01	22.36
	6H	18.66	19.14	19.69	20.18	21.52	19.94	20.42	20.96	21.45	22.80
	8H	18.72	19.17	19.74	20.20	21.55	20.08	20.53	21.10	21.56	22.92
	12H	18.72	19.12	19.76	20.17	21.53	20.14	20.55	21.18	21.59	22.95
8H	4H	18.54	18.98	19.56	20.01	21.37	19.53	19.97	20.55	21.00	22.36
	6H	18.92	19.29	19.97	20.36	21.72	20.10	20.47	21.14	21.54	22.89
	8H	19.02	19.35	20.08	20.40	21.78	20.29	20.61	21.34	21.67	23.04
	12H	19.05	19.34	20.11	20.39	21.81	20.38	20.67	21.44	21.72	23.14
12H	4H	18.52	18.92	19.56	19.97	21.33	19.49	19.90	20.53	20.94	22.30
	6H	18.94	19.26	19.99	20.32	21.69	20.09	20.41	21.14	21.47	22.85
	8H	19.05	19.34	20.11	20.39	21.80	20.28	20.57	21.34	21.62	23.04