

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: P999127

Luminaire Tested: SA2XXDIP-B865D530UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999127
REPORT IS A COMBINATION OF REPORTS P984876 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B865D530UB35-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

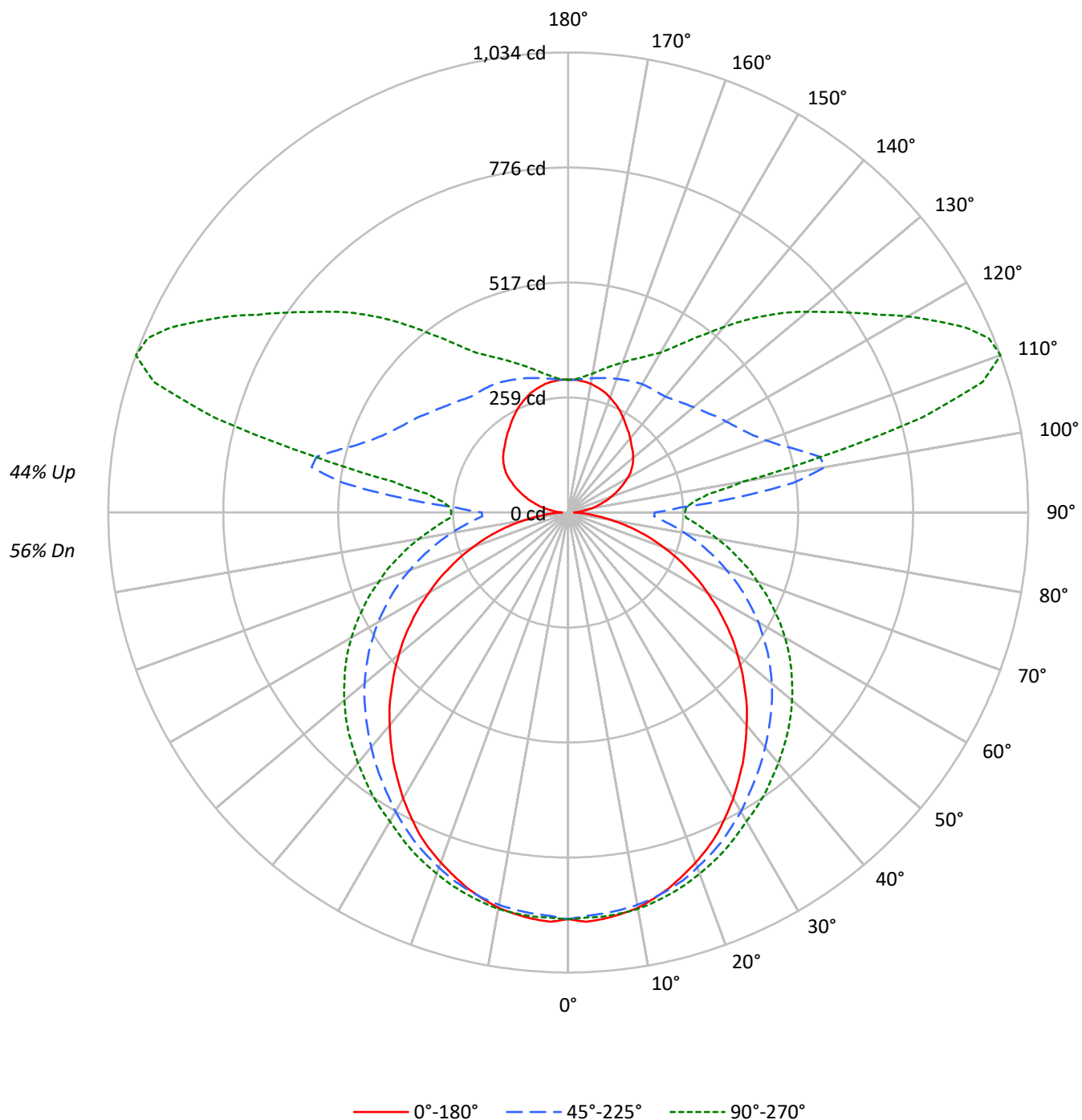
Lumens per Lamp: N/A
Luminaire Lumens: 5570.3 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 62.2
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56		
1	97	92	88	84	90	86	82	78	73	70	68	62	60	58	52	50	48	43		
2	88	80	73	67	81	74	68	63	63	59	55	54	50	47	44	42	40	35		
3	80	69	61	55	74	65	57	52	55	50	45	47	43	39	39	36	33	29		
4	73	61	53	46	67	57	49	43	49	43	38	41	37	33	34	31	28	24		
5	67	54	46	39	62	51	43	37	43	37	33	37	32	28	31	27	24	21		
6	61	49	40	34	57	45	38	32	39	33	28	33	28	25	28	24	21	18		
7	57	44	35	29	52	41	33	28	35	29	25	30	25	22	25	21	19	16		
8	53	40	32	26	49	37	30	25	32	26	22	28	23	19	23	19	16	14		
9	49	36	28	23	45	34	27	22	29	24	19	25	21	17	21	18	15	13		
10	46	33	26	21	42	31	24	20	27	21	17	23	19	15	20	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	1.6
10°-20°	248.5	4.5
20°-30°	376.6	6.8
30°-40°	458.6	8.2
40°-50°	493.4	8.9
50°-60°	479.2	8.6
60°-70°	418.5	7.5
70°-80°	322.1	5.8
80°-90°	217.6	3.9
90°-100°	269.8	4.8
100°-110°	517.6	9.3
110°-120°	501.6	9.0
120°-130°	393.5	7.1
130°-140°	300.8	5.4
140°-150°	217.4	3.9
150°-160°	150.9	2.7
160°-170°	88.8	1.6
170°-180°	28.9	0.5
0°-30°	711.8	12.8
0°-40°	1170.4	21.0
0°-60°	2142.9	38.5
0°-90°	3101.0	55.7
90°-120°	1289.0	23.1
90°-150°	2200.7	39.5
90°-180°	2469.0	44.3
0°-180°	5570.3	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	98	194	247	263	11
95°	31	122	377	288	284	29
105°	77	151	539	920	822	82
115°	129	176	435	853	985	127
125°	175	206	387	676	783	156
135°	203	242	353	542	625	157
145°	231	265	336	425	471	145
155°	262	283	326	369	384	121
165°	286	294	313	332	337	81
175°	298	298	301	304	304	28
180°	298	298	298	298	298	

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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°	13.8	97.8	194.4	246.6	262.7
92.5°	20.5	109.4	251.4	255.3	265.5
95°	30.7	122.2	377.3	287.6	284.0
97.5°	39.1	131.4	509.8	362.5	317.6
100°	53.5	138.0	585.8	521.0	401.5
102.5°	65.3	144.6	579.4	744.8	586.0
105°	76.6	150.6	539.1	920.4	821.6
107.5°	90.4	156.6	501.2	977.2	976.9
110°	102.9	162.9	473.7	955.7	1034.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	115.5	170.0	451.8	909.4	1023.5
115°	128.7	175.7	435.3	853.4	984.8
117.5°	141.2	182.7	421.4	800.9	931.8
120°	153.8	189.5	409.5	751.6	881.7
122.5°	165.8	197.8	399.2	712.2	827.3
125°	174.8	206.4	387.0	675.6	783.0
127.5°	183.4	215.6	377.4	641.8	739.7
130°	190.8	225.1	368.2	608.9	702.2
132.5°	197.7	234.2	359.8	575.3	664.8
135°	203.3	242.4	352.6	542.2	625.1
137.5°	209.6	249.2	345.9	508.8	585.3
140°	217.1	254.2	340.0	478.3	544.2
142.5°	224.5	259.4	337.4	450.0	504.5
145°	230.7	265.1	336.3	425.4	471.4
147.5°	238.7	269.7	334.6	404.2	439.7
150°	246.8	274.3	332.8	390.2	414.9
152.5°	254.8	278.9	330.0	379.6	398.3
155°	262.2	283.2	326.5	369.2	383.9
157.5°	268.6	286.6	323.1	359.5	371.3
160°	274.9	290.0	319.6	349.8	359.2
162.5°	281.2	292.7	316.8	340.6	347.8
165°	285.8	294.4	312.7	331.6	336.9
167.5°	289.8	296.2	309.3	323.6	326.5
170°	293.8	297.0	306.4	316.2	317.3
172.5°	296.1	297.8	303.0	309.6	309.9
175°	297.8	298.1	300.7	304.4	303.6
177.5°	299.0	298.4	298.4	300.7	299.0
180°	298.4	298.4	298.4	298.4	298.4

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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	14.99	15.96	15.88	16.89	18.07	18.07	19.04	18.96	19.96	21.15
	3H	16.46	17.34	17.36	18.27	19.48	20.66	21.54	21.57	22.47	23.68
	4H	16.94	17.77	17.86	18.71	19.93	21.92	22.76	22.84	23.69	24.91
	6H	17.23	18.00	18.16	18.95	20.18	23.22	24.00	24.15	24.94	26.17
	8H	17.29	18.03	18.23	18.99	20.22	23.88	24.63	24.82	25.59	26.81
	12H	17.31	18.02	18.26	18.97	20.23	24.61	25.32	25.56	26.28	27.53
4H	2H	16.05	16.89	16.98	17.83	19.04	18.41	19.24	19.33	20.18	21.40
	3H	17.77	18.48	18.70	19.45	20.68	21.21	21.92	22.14	22.88	24.12
	4H	18.39	19.05	19.34	20.01	21.26	22.63	23.28	23.57	24.24	25.50
	6H	18.82	19.39	19.77	20.37	21.63	24.10	24.67	25.06	25.66	26.91
	8H	18.93	19.46	19.89	20.44	21.71	24.86	25.40	25.82	26.38	27.65
	12H	18.98	19.46	19.96	20.46	21.74	25.70	26.18	26.68	27.18	28.45
8H	4H	19.19	19.73	20.15	20.71	21.98	22.78	23.32	23.74	24.30	25.56
	6H	19.83	20.28	20.82	21.30	22.57	24.41	24.87	25.40	25.89	27.15
	8H	20.05	20.46	21.05	21.46	22.75	25.31	25.71	26.30	26.72	28.00
	12H	20.19	20.55	21.19	21.55	22.88	26.30	26.66	27.30	27.67	28.99
12H	4H	19.40	19.89	20.38	20.88	22.16	22.76	23.25	23.74	24.24	25.52
	6H	20.17	20.57	21.16	21.58	22.86	24.44	24.84	25.43	25.85	27.13
	8H	20.48	20.83	21.47	21.84	23.16	25.37	25.73	26.37	26.74	28.06

END OF REPORT