

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: P998892

Luminaire Tested: SA2XXDIP-B675D725UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998892
REPORT IS A COMBINATION OF REPORTS P984638 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B675D725UB35-4F0-XX-W2A-F1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

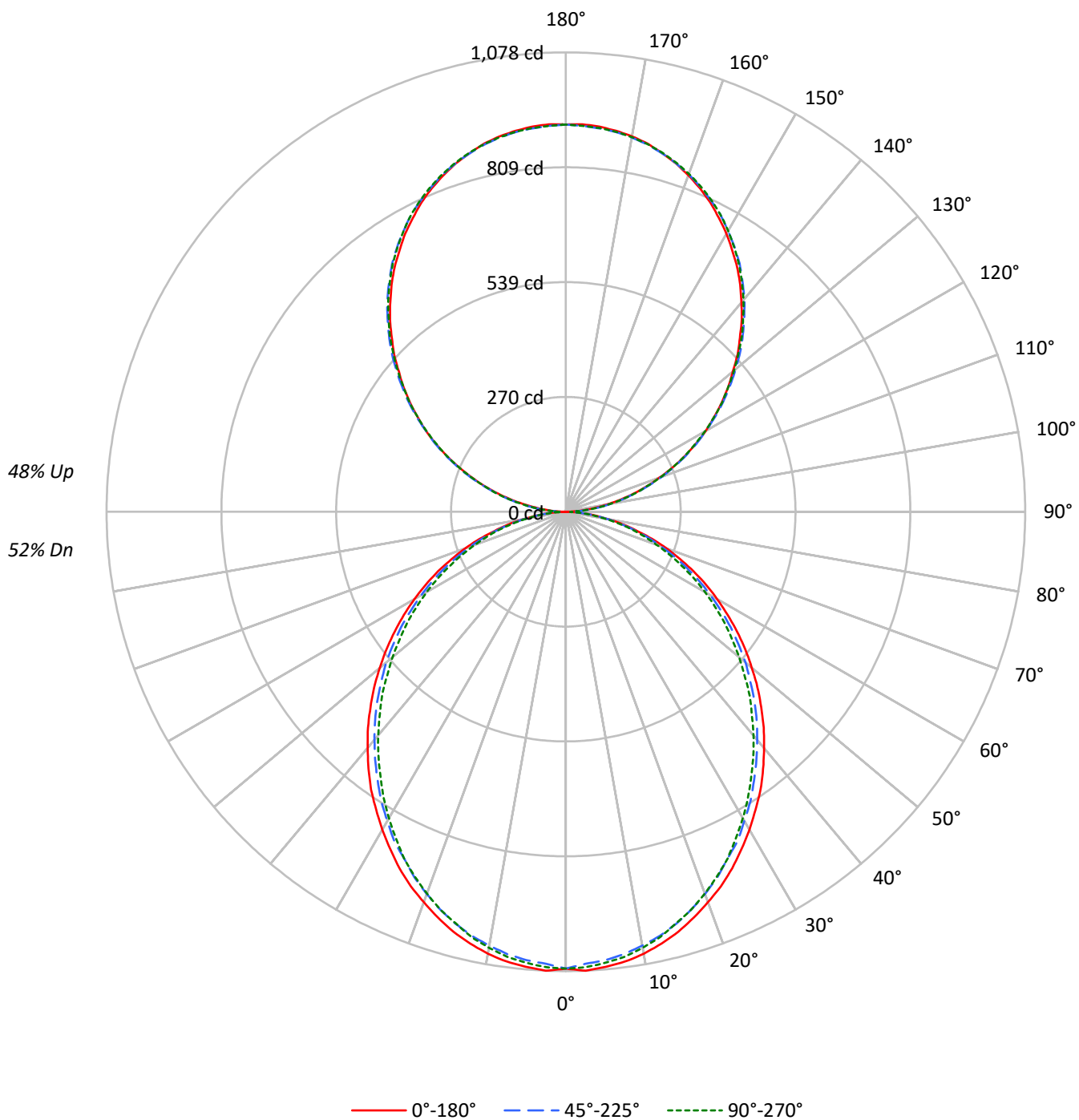
Lumens per Lamp: N/A
Luminaire Lumens: 5270.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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	50	30	10
RCR																				
0	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	58	58	58
1	98	94	90	86	91	87	84	81	74	72	69	62	60	59	51	50	49	49	49	44
2	89	82	76	71	82	76	71	66	65	61	57	54	52	49	45	43	41	41	41	37
3	82	72	65	59	75	67	60	55	57	52	48	48	45	41	40	37	35	35	35	31
4	75	64	56	50	69	59	52	47	51	45	41	43	39	36	36	33	30	30	30	27
5	69	57	49	43	63	53	46	40	45	40	35	39	34	31	32	29	26	26	26	23
6	63	51	43	37	58	48	40	35	41	35	31	35	30	27	29	26	23	23	23	20
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21	21	21	18
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	24	21	18	18	18	16
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17	17	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15	15	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16967	16967	16967
5°	16995	16172	16058
10°	16856	15435	15129
15°	16609	14694	14152
20°	16276	13886	13227
25°	15944	13042	12304
30°	15524	12249	11334
35°	15131	11412	10383
40°	14643	10587	9482
45°	14159	9769	8599
50°	13628	8936	7684
55°	13073	8044	6817
60°	12447	7080	5915
65°	11760	6100	4967
70°	10892	5029	4010
75°	9683	3875	3097
80°	8231	2635	1993
85°	5975	1226	849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14159 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.9
10°-20°	283.8	5.4
20°-30°	417.1	7.9
30°-40°	484.5	9.2
40°-50°	483.9	9.2
50°-60°	421.9	8.0
60°-70°	311.9	5.9
70°-80°	176.5	3.3
80°-90°	49.2	0.9
90°-100°	56.2	1.1
100°-110°	178.7	3.4
110°-120°	305.8	5.8
120°-130°	402.1	7.6
130°-140°	451.4	8.6
140°-150°	442.6	8.4
150°-160°	371.3	7.0
160°-170°	246.2	4.7
170°-180°	86.1	1.6
0°-30°	801.8	15.2
0°-40°	1286.3	24.4
0°-60°	2192.1	41.6
0°-90°	2729.6	51.8
90°-120°	540.7	10.3
90°-150°	1836.8	34.9
90°-180°	2540.0	48.2
0°-180°	5270.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1072	1068	1056	1065	1063	102
15°	1020	1014	1001	1005	1000	287
25°	924	915	898	900	898	425
35°	797	786	770	764	759	497
45°	648	641	626	614	610	500
55°	491	484	472	460	454	439
65°	331	325	314	305	300	327
75°	173	171	166	160	162	185
85°	42	41	40	37	36	47
90°	1	10	27	25	26	5
95°	40	48	49	49	48	45
105°	165	167	169	170	170	174
115°	307	311	310	309	307	303
125°	446	453	451	449	448	399
135°	577	586	587	587	584	446
145°	701	706	711	712	708	438
155°	801	804	806	810	807	369
165°	872	871	871	876	873	246
175°	907	905	903	909	904	86
180°	909	909	909	909	909	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.9	1071.9	1071.9	1071.9	1071.9
2.5°	1078.1	1072.9	1061.6	1071.9	1069.8
5°	1071.9	1067.7	1056.4	1064.7	1062.6
7.5°	1064.7	1058.5	1047.1	1055.4	1053.3
10°	1053.3	1046.1	1033.7	1042.0	1038.9
12.5°	1037.9	1031.7	1019.3	1024.5	1022.4
15°	1020.3	1014.2	1000.8	1004.9	999.7
17.5°	998.7	992.5	979.1	984.3	979.1
20°	975.0	968.8	954.4	957.5	953.3
22.5°	951.3	942.0	928.6	928.6	926.5
25°	923.5	915.2	897.7	899.7	897.7
27.5°	892.5	885.3	871.9	868.8	863.7
30°	861.6	853.4	837.9	834.8	830.7
32.5°	828.6	822.5	806.0	799.8	795.7
35°	796.7	786.4	769.9	763.7	758.6
37.5°	760.6	751.3	734.8	727.6	722.5
40°	723.5	715.3	698.8	689.5	685.4
42.5°	687.4	679.2	662.7	652.4	646.2
45°	648.3	641.1	625.6	614.3	610.1
47.5°	610.1	602.9	586.4	575.1	568.9
50°	569.9	564.8	550.4	535.9	530.8
52.5°	530.8	523.6	510.2	498.8	491.6
55°	490.6	484.4	472.0	459.7	454.5
57.5°	450.4	445.2	431.8	419.5	415.3
60°	410.2	406.1	391.6	380.3	377.2
62.5°	371.0	363.8	353.5	343.2	339.1
65°	330.8	324.7	314.3	305.1	299.9
67.5°	289.6	284.5	275.2	268.0	263.8
70°	251.5	247.4	238.1	230.9	226.7
72.5°	212.3	208.2	203.0	195.8	192.7
75°	173.1	171.1	165.9	159.7	161.8
77.5°	138.1	134.0	131.9	128.8	125.7
80°	103.1	102.0	100.0	96.9	94.8
82.5°	70.1	70.1	69.1	64.9	64.9
85°	42.3	41.2	40.2	37.1	36.1
87.5°	18.6	16.5	14.4	11.3	10.3
90°	0.8	10.0	26.8	25.3	26.1
92.5°	16.9	23.0	23.8	24.5	24.5
95°	39.9	47.5	49.1	49.1	47.5
97.5°	66.7	73.6	76.7	76.7	76.7
100°	97.4	103.5	105.8	105.8	105.1
102.5°	129.6	134.2	137.3	138.0	137.3
105°	164.9	167.2	168.7	170.2	170.2
107.5°	200.1	203.2	203.2	204.0	200.1
110°	233.9	238.5	238.5	238.5	236.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	270.7	275.3	274.5	272.2	270.7
115°	306.7	311.3	309.8	309.0	306.7
117.5°	342.8	348.9	345.1	342.8	340.5
120°	378.8	384.9	378.8	378.8	376.5
122.5°	411.8	419.4	415.6	413.3	411.8
125°	446.3	453.2	450.9	448.6	447.8
127.5°	480.0	488.4	485.4	482.3	480.0
130°	511.5	521.4	519.9	518.4	515.3
132.5°	546.7	554.4	555.2	551.3	549.0
135°	577.4	585.8	587.4	586.6	584.3
137.5°	611.1	618.0	619.6	618.8	615.7
140°	641.0	647.9	651.8	651.8	648.7
142.5°	671.7	678.6	680.9	681.7	678.6
145°	700.8	706.2	710.8	711.6	708.5
147.5°	726.9	733.8	736.9	738.4	735.4
150°	753.8	758.4	761.4	763.7	761.4
152.5°	777.5	782.1	786.0	789.0	786.0
155°	801.3	803.6	805.9	809.7	807.4
157.5°	822.0	823.5	825.1	830.4	826.6
160°	840.4	841.9	842.7	847.3	844.2
162.5°	857.3	857.3	858.0	863.4	859.6
165°	871.8	871.1	871.1	876.4	872.6
167.5°	884.9	882.6	882.6	887.9	884.1
170°	894.8	892.5	891.8	897.1	892.5
172.5°	901.7	899.4	898.7	904.0	899.4
175°	907.1	904.8	903.3	908.7	904.0
177.5°	910.2	907.9	906.3	911.0	906.3
180°	908.7	908.7	908.7	908.7	908.7

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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	15.24	16.11	16.18	17.07	18.32	16.02	16.90	16.96	17.85	19.10
	3H	16.57	17.36	17.53	18.33	19.60	17.65	18.43	18.60	19.40	20.67
	4H	16.98	17.73	17.95	18.70	19.97	18.24	18.98	19.20	19.95	21.23
	6H	17.20	17.89	18.18	18.86	20.15	18.64	19.33	19.62	20.31	21.60
	8H	17.23	17.89	18.22	18.88	20.17	18.75	19.40	19.74	20.40	21.69
	12H	17.22	17.85	18.21	18.83	20.15	18.80	19.42	19.79	20.41	21.72
4H	2H	15.71	16.45	16.68	17.42	18.70	16.35	17.10	17.32	18.07	19.34
	3H	17.23	17.85	18.21	18.85	20.14	18.13	18.75	19.11	19.76	21.05
	4H	17.73	18.30	18.72	19.30	20.61	18.81	19.38	19.81	20.38	21.69
	6H	18.04	18.53	19.04	19.54	20.86	19.31	19.80	20.31	20.82	22.13
	8H	18.09	18.55	19.10	19.56	20.89	19.45	19.91	20.46	20.92	22.25
	12H	18.09	18.51	19.12	19.53	20.87	19.52	19.93	20.54	20.96	22.29
8H	4H	17.91	18.37	18.91	19.38	20.71	18.90	19.36	19.91	20.37	21.70
	6H	18.29	18.67	19.32	19.73	21.05	19.47	19.85	20.50	20.90	22.23
	8H	18.40	18.73	19.43	19.77	21.11	19.66	19.99	20.70	21.03	22.38
	12H	18.43	18.72	19.47	19.76	21.14	19.76	20.05	20.80	21.09	22.47
12H	4H	17.89	18.31	18.92	19.33	20.67	18.87	19.28	19.89	20.31	21.64
	6H	18.31	18.65	19.35	19.68	21.03	19.46	19.80	20.50	20.84	22.18
	8H	18.43	18.72	19.47	19.75	21.14	19.66	19.95	20.70	20.99	22.37