

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: P1009422

Luminaire Tested: S122DIP-B675D925UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009422
REPORT IS A COMBINATION OF REPORTS P984708 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D925UB40-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

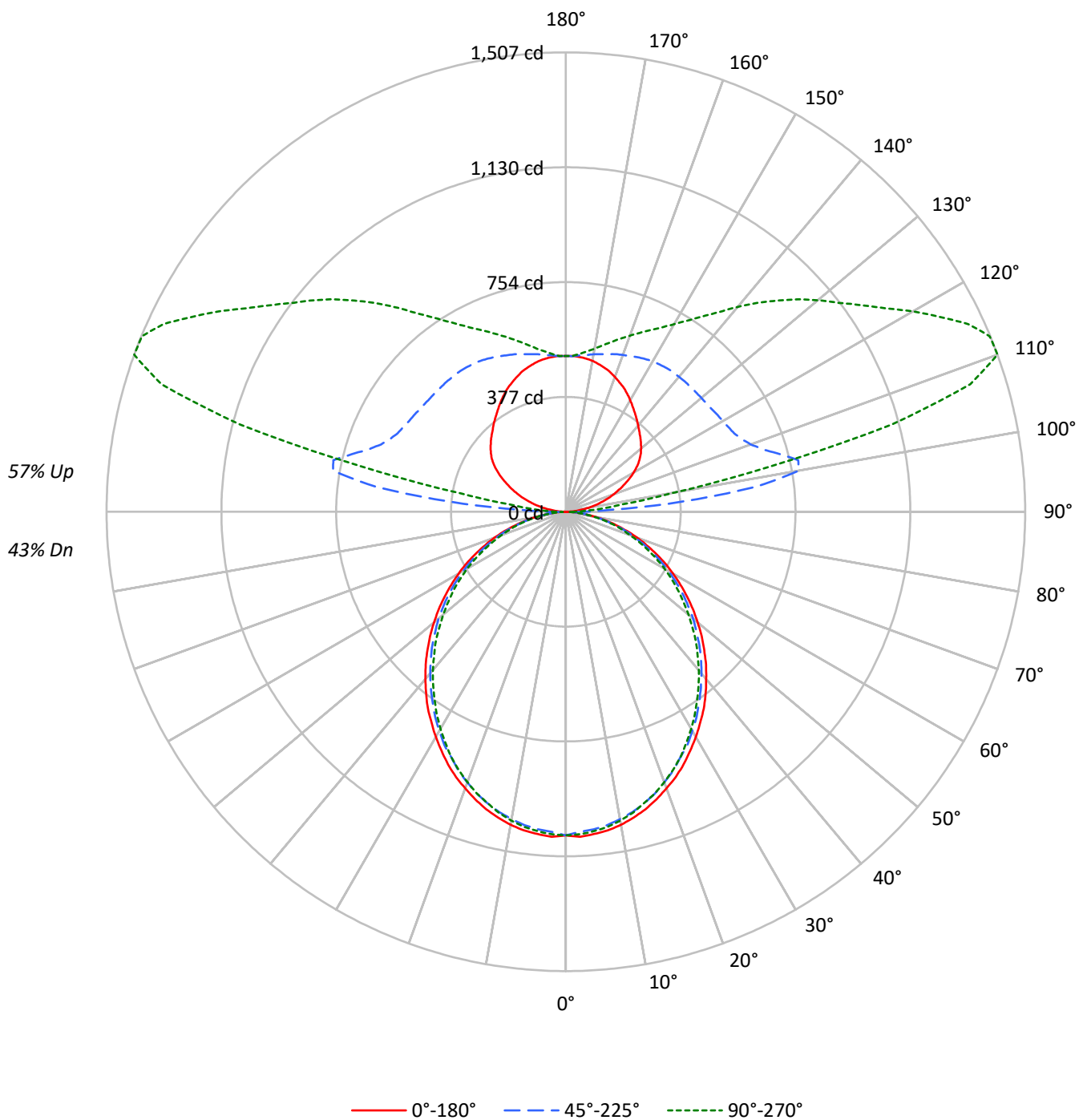
Lumens per Lamp: N/A
Luminaire Lumens: 6265.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42
2	88	80	74	69	80	74	68	64	61	57	54	49	47	44	39	37	35
3	80	71	63	58	73	65	58	53	54	49	45	44	40	38	34	32	30
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	38	33	29	32	28	24	25	22	20
7	57	45	37	32	52	41	34	30	35	29	26	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16800	16800	16800
5°	16827	16012	15899
10°	16689	15283	14979
15°	16445	14547	14012
20°	16114	13747	13096
25°	15785	12913	12182
30°	15371	12127	11222
35°	14981	11300	10279
40°	14497	10483	9388
45°	14019	9672	8515
50°	13494	8847	7608
55°	12942	7966	6749
60°	12323	7011	5857
65°	11646	6040	4917
70°	10783	4978	3972
75°	9588	3838	3066
80°	8143	2609	1974
85°	5905	1214	839

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14019 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.6
10°-20°	281.0	4.5
20°-30°	413.0	6.6
30°-40°	479.7	7.7
40°-50°	479.1	7.6
50°-60°	417.7	6.7
60°-70°	308.8	4.9
70°-80°	174.7	2.8
80°-90°	49.4	0.8
90°-100°	207.1	3.3
100°-110°	700.1	11.2
110°-120°	735.9	11.7
120°-130°	605.2	9.7
130°-140°	486.3	7.8
140°-150°	367.4	5.9
150°-160°	258.3	4.1
160°-170°	152.1	2.4
170°-180°	49.5	0.8
0°-30°	793.9	12.7
0°-40°	1273.6	20.3
0°-60°	2170.4	34.6
0°-90°	2703.2	43.1
90°-120°	1643.2	26.2
90°-150°	3102.0	49.5
90°-180°	3562.0	56.9
0°-180°	6265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1061	1057	1046	1054	1052	101
15°	1010	1004	991	995	990	285
25°	914	906	889	891	889	421
35°	789	779	762	756	751	493
45°	642	635	619	608	604	495
55°	486	480	467	455	450	434
65°	328	321	311	302	297	324
75°	171	169	164	158	160	183
85°	42	41	40	37	36	47
90°	1	13	33	32	32	5
95°	34	84	385	145	112	36
105°	120	181	728	1301	1107	127
115°	211	267	609	1257	1457	209
125°	295	349	586	1018	1182	262
135°	346	413	579	856	980	267
145°	395	454	576	715	782	248
155°	449	485	559	632	657	207
165°	489	504	535	568	577	138
175°	510	510	515	521	520	48
180°	511	511	511	511	511	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1067.4	1062.3	1051.0	1061.3	1059.2
5°	1061.3	1057.2	1045.9	1054.1	1052.1
7.5°	1054.1	1048.0	1036.8	1044.9	1042.9
10°	1042.9	1035.7	1023.5	1031.7	1028.6
12.5°	1027.6	1021.5	1009.2	1014.3	1012.3
15°	1010.2	1004.1	990.8	994.9	989.8
17.5°	988.8	982.7	969.4	974.5	969.4
20°	965.3	959.2	944.9	948.0	943.9
22.5°	941.9	932.7	919.4	919.4	917.4
25°	914.3	906.1	888.8	890.8	888.8
27.5°	883.7	876.6	863.3	860.2	855.1
30°	853.1	844.9	829.6	826.6	822.5
32.5°	820.4	814.3	798.0	791.9	787.8
35°	788.8	778.6	762.3	756.1	751.0
37.5°	753.1	743.9	727.6	720.4	715.3
40°	716.3	708.2	691.9	682.7	678.6
42.5°	680.6	672.5	656.1	645.9	639.8
45°	641.9	634.7	619.4	608.2	604.1
47.5°	604.1	597.0	580.6	569.4	563.3
50°	564.3	559.2	544.9	530.6	525.5
52.5°	525.5	518.4	505.1	493.9	486.7
55°	485.7	479.6	467.4	455.1	450.0
57.5°	445.9	440.8	427.6	415.3	411.2
60°	406.1	402.1	387.8	376.5	373.5
62.5°	367.4	360.2	350.0	339.8	335.7
65°	327.6	321.4	311.2	302.0	296.9
67.5°	286.7	281.6	272.5	265.3	261.2
70°	249.0	244.9	235.7	228.6	224.5
72.5°	210.2	206.1	201.0	193.9	190.8
75°	171.4	169.4	164.3	158.2	160.2
77.5°	136.7	132.7	130.6	127.6	124.5
80°	102.0	101.0	99.0	95.9	93.9
82.5°	69.4	69.4	68.4	64.3	64.3
85°	41.8	40.8	39.8	36.7	35.7
87.5°	18.4	16.3	14.3	11.2	10.2
90°	1.0	13.2	33.4	31.9	32.4
92.5°	14.7	46.7	151.3	69.8	59.9
95°	34.4	84.5	385.1	145.4	112.0
97.5°	51.1	111.5	627.8	291.8	187.6
100°	75.6	136.6	776.1	581.2	351.7
102.5°	98.2	159.2	781.0	982.4	685.7
105°	119.9	180.8	728.0	1301.2	1107.2
107.5°	143.4	202.4	678.9	1416.6	1391.1
110°	167.0	224.4	645.5	1398.0	1507.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.6	245.6	623.9	1334.6	1505.1
115°	211.2	266.8	609.1	1257.0	1457.0
117.5°	234.8	287.8	601.3	1182.8	1384.3
120°	256.4	308.4	594.4	1116.5	1314.5
122.5°	277.0	329.6	590.4	1065.0	1241.8
125°	294.7	348.8	585.5	1018.3	1181.9
127.5°	309.5	367.0	582.6	978.5	1125.9
130°	322.2	383.2	580.6	938.2	1079.7
132.5°	334.0	398.8	579.6	896.4	1031.6
135°	345.8	412.6	578.7	855.7	979.5
137.5°	356.6	424.4	578.7	814.4	929.4
140°	369.4	435.2	577.7	778.1	877.3
142.5°	382.2	444.1	577.7	743.2	825.3
145°	394.9	453.9	575.7	714.8	782.0
147.5°	408.7	461.8	572.8	689.7	743.7
150°	422.5	469.6	569.8	668.0	710.3
152.5°	436.2	477.4	564.9	649.9	681.8
155°	449.0	484.8	559.0	632.2	657.3
157.5°	459.8	490.7	553.1	615.5	635.6
160°	470.6	496.6	547.2	598.8	615.0
162.5°	481.4	501.0	542.3	583.0	595.4
165°	489.3	504.0	535.4	567.8	576.7
167.5°	496.1	507.0	529.5	554.1	559.0
170°	503.0	508.4	524.6	541.3	543.3
172.5°	506.9	509.9	518.7	530.0	530.5
175°	509.9	510.4	514.8	521.2	519.7
177.5°	511.9	510.9	510.9	514.8	511.9
180°	510.9	510.9	510.9	510.9	510.9

(END OF REPORT)