

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: P1009427

Luminaire Tested: S122DIP-B675D925UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009427
REPORT IS A COMBINATION OF REPORTS P984713 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D925UB50-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

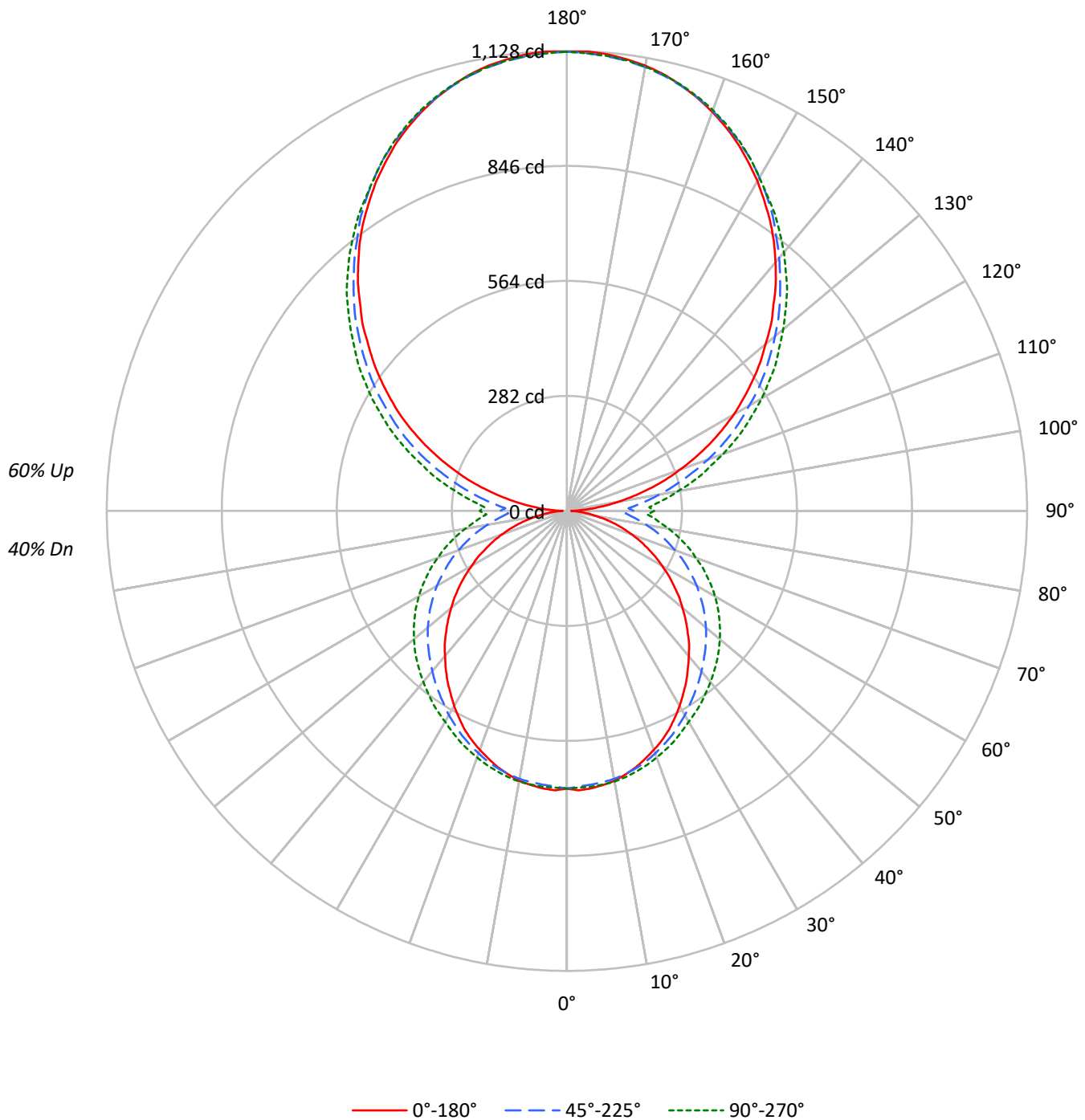
Lumens per Lamp: N/A
Luminaire Lumens: 5749.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40	40	40
1	94	90	85	81	86	82	78	75	66	64	61	53	51	49	40	38	37	31	31	31
2	85	78	71	65	77	71	65	60	57	53	50	45	42	40	34	32	31	25	25	25
3	78	68	60	54	70	62	55	50	50	45	41	40	36	33	30	28	25	21	21	21
4	71	60	51	45	64	54	47	42	44	39	35	35	31	28	27	24	22	18	18	18
5	65	53	45	38	59	48	41	35	39	34	30	31	27	24	24	21	19	15	15	15
6	60	47	39	33	54	43	36	31	35	30	26	28	24	21	21	18	16	13	13	13
7	55	42	34	29	50	39	32	27	32	26	22	26	21	18	20	17	14	11	11	11
8	51	38	31	25	46	35	28	23	29	24	20	23	19	16	18	15	13	10	10	10
9	47	35	27	22	43	32	25	21	27	21	18	21	17	14	16	14	11	9	9	9
10	44	32	25	20	40	29	23	18	24	19	16	20	16	13	15	12	10	8	8	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10778	10778	10778
5°	10827	10318	10260
10°	10754	9961	9815
15°	10602	9592	9359
20°	10410	9202	8927
25°	10222	8832	8535
30°	9957	8454	8146
35°	9689	8089	7860
40°	9407	7774	7577
45°	9138	7489	7329
50°	8848	7225	7085
55°	8545	6945	6838
60°	8175	6655	6577
65°	7789	6319	6275
70°	7349	5960	5953
75°	6791	5601	5646
80°	5908	5226	5331
85°	5015	4876	5058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.1
10°-20°	185.1	3.2
20°-30°	280.5	4.9
30°-40°	341.6	5.9
40°-50°	367.5	6.4
50°-60°	356.9	6.2
60°-70°	311.7	5.4
70°-80°	239.9	4.2
80°-90°	163.9	2.9
90°-100°	180.5	3.1
100°-110°	302.4	5.3
110°-120°	432.3	7.5
120°-130°	528.1	9.2
130°-140°	571.8	9.9
140°-150°	550.6	9.6
150°-160°	460.1	8.0
160°-170°	305.1	5.3
170°-180°	106.6	1.9
0°-30°	530.2	9.2
0°-40°	871.7	15.2
0°-60°	1596.1	27.8
0°-90°	2311.6	40.2
90°-120°	915.2	15.9
90°-150°	2565.6	44.6
90°-180°	3437.0	59.8
0°-180°	5749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	683	680	674	680	679	65
15°	651	653	653	662	661	183
25°	592	599	608	620	623	272
35°	510	527	546	567	574	319
45°	418	445	480	510	520	323
55°	321	356	408	443	456	287
65°	219	267	326	366	379	218
75°	121	177	240	282	295	128
85°	36	97	160	201	215	37
90°	11	80	164	201	214	10
95°	57	113	174	212	222	61
105°	209	241	294	330	341	221
115°	384	401	443	472	480	380
125°	555	564	592	616	624	496
135°	716	727	739	758	764	554
145°	868	875	881	888	889	543
155°	993	996	999	1003	1000	457
165°	1080	1079	1079	1086	1081	305
175°	1124	1121	1119	1126	1120	107
180°	1126	1126	1126	1126	1126	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.9	680.9	680.9	680.9	680.9
2.5°	685.8	682.9	675.9	680.9	678.9
5°	682.9	679.9	674.0	679.9	678.9
7.5°	677.9	675.9	671.0	677.9	676.9
10°	672.0	670.0	667.1	675.0	674.0
12.5°	662.1	663.1	661.1	669.0	668.1
15°	651.3	653.3	653.3	662.1	661.1
17.5°	637.5	641.4	644.4	653.3	653.3
20°	623.6	628.6	632.5	643.4	643.4
22.5°	608.8	614.8	620.7	631.5	633.5
25°	592.1	599.0	607.9	619.7	622.7
27.5°	572.3	583.2	593.1	607.9	609.8
30°	552.6	565.4	578.3	594.0	597.0
32.5°	530.9	545.7	561.5	580.2	586.1
35°	510.2	526.9	545.7	567.4	574.3
37.5°	487.5	506.2	529.9	553.6	560.5
40°	464.8	486.5	513.1	538.8	547.7
42.5°	443.1	464.8	496.4	525.0	533.8
45°	418.4	445.0	479.6	510.2	520.0
47.5°	394.7	423.3	462.8	494.4	505.2
50°	370.0	400.6	445.0	478.6	489.4
52.5°	346.4	378.9	426.3	460.8	472.7
55°	320.7	356.2	407.5	443.1	455.9
57.5°	296.0	335.5	386.8	425.3	438.1
60°	269.4	311.8	368.1	405.6	419.4
62.5°	245.7	290.1	346.4	386.8	399.6
65°	219.1	267.4	325.6	366.1	378.9
67.5°	195.4	245.7	304.9	345.4	359.2
70°	169.7	221.0	282.2	324.7	336.5
72.5°	146.0	199.3	261.5	302.9	317.7
75°	121.4	176.6	239.8	282.2	295.0
77.5°	97.7	154.9	219.1	261.5	275.3
80°	74.0	134.2	198.3	239.8	253.6
82.5°	54.3	113.5	178.6	220.1	232.9
85°	35.5	96.7	159.9	201.3	215.1
87.5°	21.7	80.9	144.1	184.5	197.4
90°	10.9	79.5	163.6	201.1	213.9
92.5°	29.8	89.7	150.9	190.3	202.1
95°	57.3	113.2	174.3	211.8	221.7
97.5°	89.6	140.5	201.6	238.1	249.9
100°	127.6	171.7	229.8	266.3	276.2
102.5°	166.5	204.8	261.9	298.3	308.2
105°	209.2	240.7	293.9	330.3	341.2
107.5°	252.9	280.4	329.8	364.2	370.4
110°	293.7	319.2	367.5	399.1	407.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	339.3	360.8	405.2	434.0	443.0
115°	383.9	400.6	443.1	471.7	479.7
117.5°	427.7	443.2	479.9	506.6	513.7
120°	472.4	483.9	515.8	543.4	551.4
122.5°	513.2	523.6	555.5	579.2	586.2
125°	555.0	563.5	592.3	616.0	624.0
127.5°	596.8	606.2	629.0	649.9	656.0
130°	635.7	647.1	665.9	687.7	691.8
132.5°	679.4	687.9	703.7	721.6	726.7
135°	716.4	726.9	738.7	758.4	763.5
137.5°	758.2	766.8	773.6	791.5	794.5
140°	795.3	802.9	809.6	825.4	827.5
142.5°	833.3	840.9	843.7	856.5	857.7
145°	868.4	875.1	880.8	887.6	888.8
147.5°	900.7	909.3	913.1	916.0	915.1
150°	934.0	939.7	943.5	946.3	943.5
152.5°	963.4	969.1	973.9	977.7	973.9
155°	992.9	995.7	998.6	1003.3	1000.5
157.5°	1018.5	1020.4	1022.3	1029.0	1024.2
160°	1041.3	1043.2	1044.2	1049.9	1046.1
162.5°	1062.2	1062.2	1063.2	1069.8	1065.1
165°	1080.3	1079.3	1079.3	1086.0	1081.2
167.5°	1096.4	1093.6	1093.6	1100.2	1095.5
170°	1108.8	1105.9	1105.0	1111.6	1105.9
172.5°	1117.3	1114.5	1113.5	1120.2	1114.5
175°	1124.0	1121.1	1119.2	1125.9	1120.2
177.5°	1127.8	1124.9	1123.0	1128.7	1123.0
180°	1125.9	1125.9	1125.9	1125.9	1125.9

(END OF REPORT)