

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: P1010209

Luminaire Tested: S122RDIP-B675D725UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010209
REPORT IS A COMBINATION OF REPORTS P988571 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B675D725UB40-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

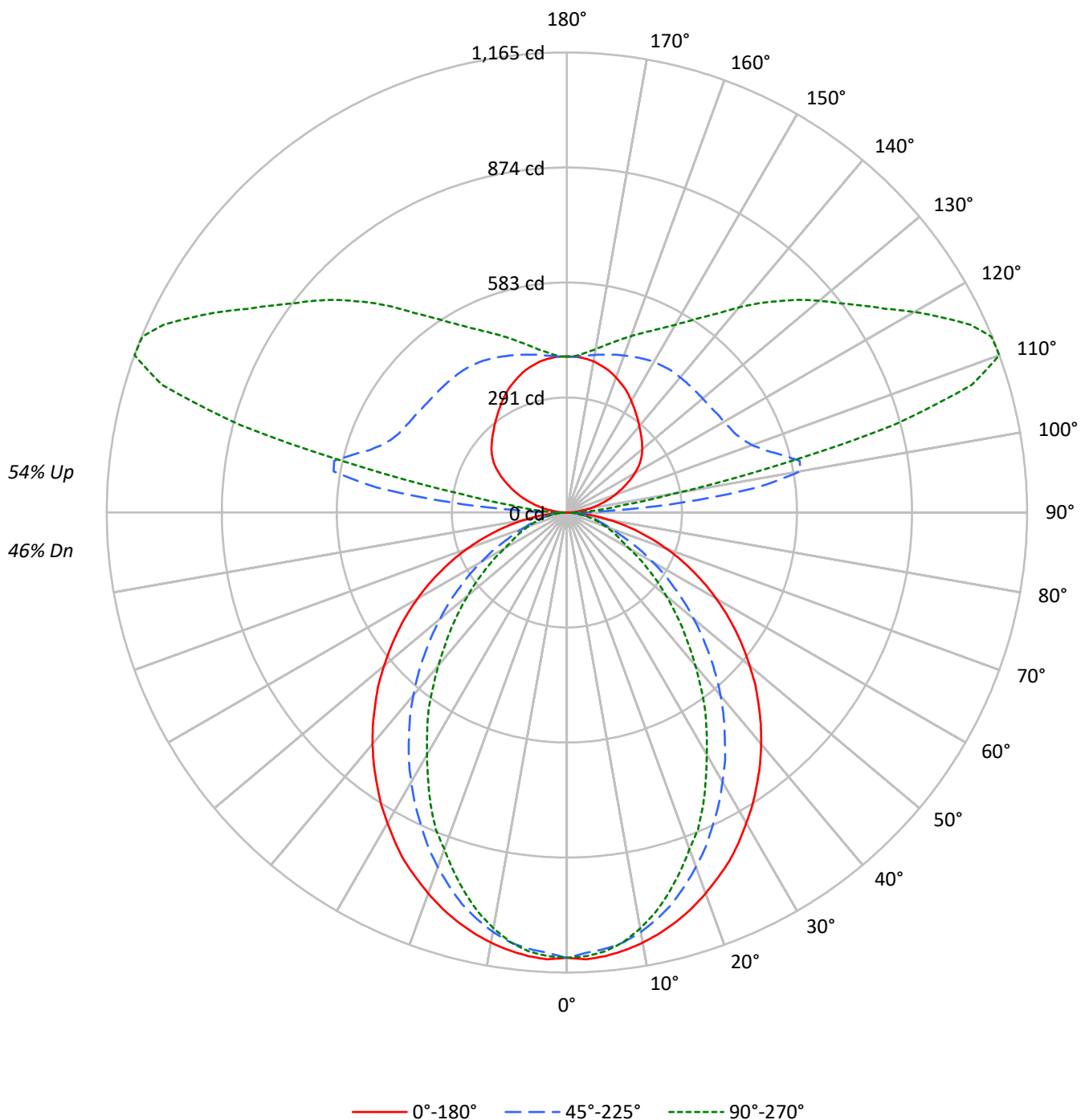
Lumens per Lamp: N/A
Luminaire Lumens: 5074.2 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	97	93	89	86	89	86	82	80	72	69	67	59	57	56	47	46	45
2	89	82	76	71	81	75	70	66	63	60	56	52	50	47	42	40	39
3	81	72	65	60	74	67	61	56	56	52	48	46	43	40	37	35	33
4	75	64	57	51	68	59	53	48	50	45	41	42	38	35	34	31	29
5	69	57	50	44	63	53	46	41	45	40	36	38	34	31	31	28	26
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23
7	59	47	39	34	54	43	37	32	37	32	28	31	27	24	26	23	20
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	18
9	51	39	32	27	47	36	30	25	31	26	22	26	22	20	22	19	17
10	47	36	29	24	44	33	27	23	29	24	20	24	20	18	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17849	17849	17849
5°	17878	16981	16854
10°	17701	16105	15574
15°	17459	15072	14114
20°	17137	13896	12587
25°	16807	12690	11188
30°	16364	11516	9663
35°	15930	10332	8352
40°	15489	9168	7002
45°	14976	7967	5825
50°	14446	6809	4743
55°	13893	5651	3764
60°	13251	4520	2848
65°	12513	3447	2315
70°	11624	2501	1842
75°	10506	1906	1407
80°	8878	1291	944
85°	6201	592	456

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14976 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	2.1
10°-20°	290.1	5.7
20°-30°	407.3	8.0
30°-40°	444.0	8.7
40°-50°	408.1	8.0
50°-60°	320.5	6.3
60°-70°	208.6	4.1
70°-80°	107.4	2.1
80°-90°	29.9	0.6
90°-100°	160.1	3.2
100°-110°	541.1	10.7
110°-120°	568.7	11.2
120°-130°	467.7	9.2
130°-140°	375.8	7.4
140°-150°	283.9	5.6
150°-160°	199.6	3.9
160°-170°	117.5	2.3
170°-180°	38.2	0.8
0°-30°	803.1	15.8
0°-40°	1247.1	24.6
0°-60°	1975.6	38.9
0°-90°	2321.5	45.8
90°-120°	1269.9	25.0
90°-150°	2397.3	47.2
90°-180°	2753.0	54.3
0°-180°	5074.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1128	1122	1109	1118	1115	107
15°	1072	1061	1027	1007	997	302
25°	974	941	874	832	816	448
35°	839	787	697	633	610	525
45°	686	617	510	438	413	530
55°	521	442	332	270	251	466
65°	352	269	178	143	140	349
75°	188	116	82	74	74	199
85°	44	22	19	19	19	50
90°	1	10	26	25	25	4
95°	27	65	298	112	87	27
105°	93	140	563	1006	856	98
115°	163	206	471	972	1126	162
125°	228	270	452	787	913	202
135°	267	319	447	661	757	206
145°	305	351	445	552	604	191
155°	347	375	432	489	508	160
165°	378	390	414	439	446	107
175°	394	394	398	403	402	37
180°	395	395	395	395	395	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127.6	1127.6	1127.6	1127.6	1127.6
2.5°	1132.7	1127.6	1116.3	1126.6	1124.5
5°	1127.6	1122.5	1109.2	1118.4	1115.3
7.5°	1118.4	1112.3	1098.0	1102.1	1097.0
10°	1106.1	1099.0	1078.6	1075.5	1069.4
12.5°	1090.8	1081.7	1054.1	1048.0	1036.8
15°	1072.5	1061.2	1026.6	1007.2	997.0
17.5°	1051.0	1034.7	991.9	969.4	953.1
20°	1026.6	1006.1	955.1	929.6	907.2
22.5°	1000.0	976.6	917.4	882.7	867.4
25°	973.5	940.8	873.5	831.6	816.3
27.5°	941.9	907.2	832.7	784.7	761.2
30°	908.2	869.4	787.8	735.7	708.2
32.5°	875.5	828.6	744.9	683.7	658.2
35°	838.8	786.8	697.0	632.7	610.2
37.5°	803.1	747.0	652.1	581.6	556.1
40°	765.3	704.1	605.1	532.7	506.1
42.5°	726.5	661.2	558.2	482.7	457.2
45°	685.7	617.4	510.2	437.8	413.3
47.5°	647.0	574.5	464.3	391.8	369.4
50°	604.1	531.6	419.4	349.0	327.6
52.5°	562.3	485.7	376.5	309.2	289.8
55°	521.4	441.8	331.6	270.4	251.0
57.5°	479.6	398.0	291.8	234.7	218.4
60°	436.7	355.1	250.0	198.0	181.6
62.5°	394.9	313.3	214.3	165.3	157.1
65°	352.0	269.4	177.6	142.9	139.8
67.5°	311.2	228.6	142.9	125.5	122.5
70°	268.4	188.8	118.4	108.2	104.1
72.5°	227.6	152.0	99.0	90.8	88.8
75°	187.8	116.3	81.6	74.5	73.5
77.5°	148.0	82.7	64.3	60.2	58.2
80°	111.2	59.2	49.0	44.9	44.9
82.5°	77.6	39.8	33.7	31.6	31.6
85°	43.9	22.4	19.4	19.4	19.4
87.5°	16.3	8.2	8.2	7.1	7.1
90°	0.8	10.2	25.8	24.7	25.1
92.5°	11.4	36.0	116.9	53.9	46.3
95°	26.6	65.3	297.6	112.4	86.6
97.5°	39.5	86.2	485.2	225.5	145.0
100°	58.5	105.6	599.8	449.1	271.8
102.5°	75.9	123.0	603.6	759.2	530.0
105°	92.6	139.7	562.6	1005.6	855.7
107.5°	110.9	156.4	524.6	1094.8	1075.1
110°	129.1	173.5	498.8	1080.4	1164.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.8	189.8	482.1	1031.4	1163.2
115°	163.2	206.2	470.7	971.5	1126.0
117.5°	181.5	222.4	464.7	914.1	1069.8
120°	198.2	238.4	459.3	862.8	1015.9
122.5°	214.1	254.7	456.3	823.0	959.7
125°	227.8	269.5	452.5	787.0	913.4
127.5°	239.2	283.6	450.2	756.2	870.1
130°	249.0	296.1	448.7	725.0	834.4
132.5°	258.1	308.2	448.0	692.8	797.2
135°	267.3	318.9	447.2	661.3	757.0
137.5°	275.6	328.0	447.2	629.4	718.2
140°	285.5	336.4	446.4	601.3	678.0
142.5°	295.3	343.2	446.4	574.4	637.8
145°	305.2	350.8	444.9	552.3	604.4
147.5°	315.8	356.8	442.6	533.0	574.8
150°	326.5	363.0	440.4	516.3	548.9
152.5°	337.1	369.0	436.6	502.2	526.9
155°	347.0	374.7	432.0	488.6	507.9
157.5°	355.3	379.2	427.5	475.7	491.2
160°	363.7	383.8	422.9	462.8	475.3
162.5°	372.0	387.2	419.1	450.6	460.1
165°	378.1	389.5	413.8	438.8	445.7
167.5°	383.4	391.8	409.2	428.2	432.0
170°	388.7	393.0	405.4	418.4	419.9
172.5°	391.8	394.0	400.9	409.6	410.0
175°	394.1	394.5	397.8	402.8	401.6
177.5°	395.6	394.8	394.8	397.8	395.6
180°	394.8	394.8	394.8	394.8	394.8

(END OF REPORT)