

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: P1000053

Luminaire Tested: SA2XXRDIP-B675D925UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000053
REPORT IS A COMBINATION OF REPORTS P988610 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B675D925UB40-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

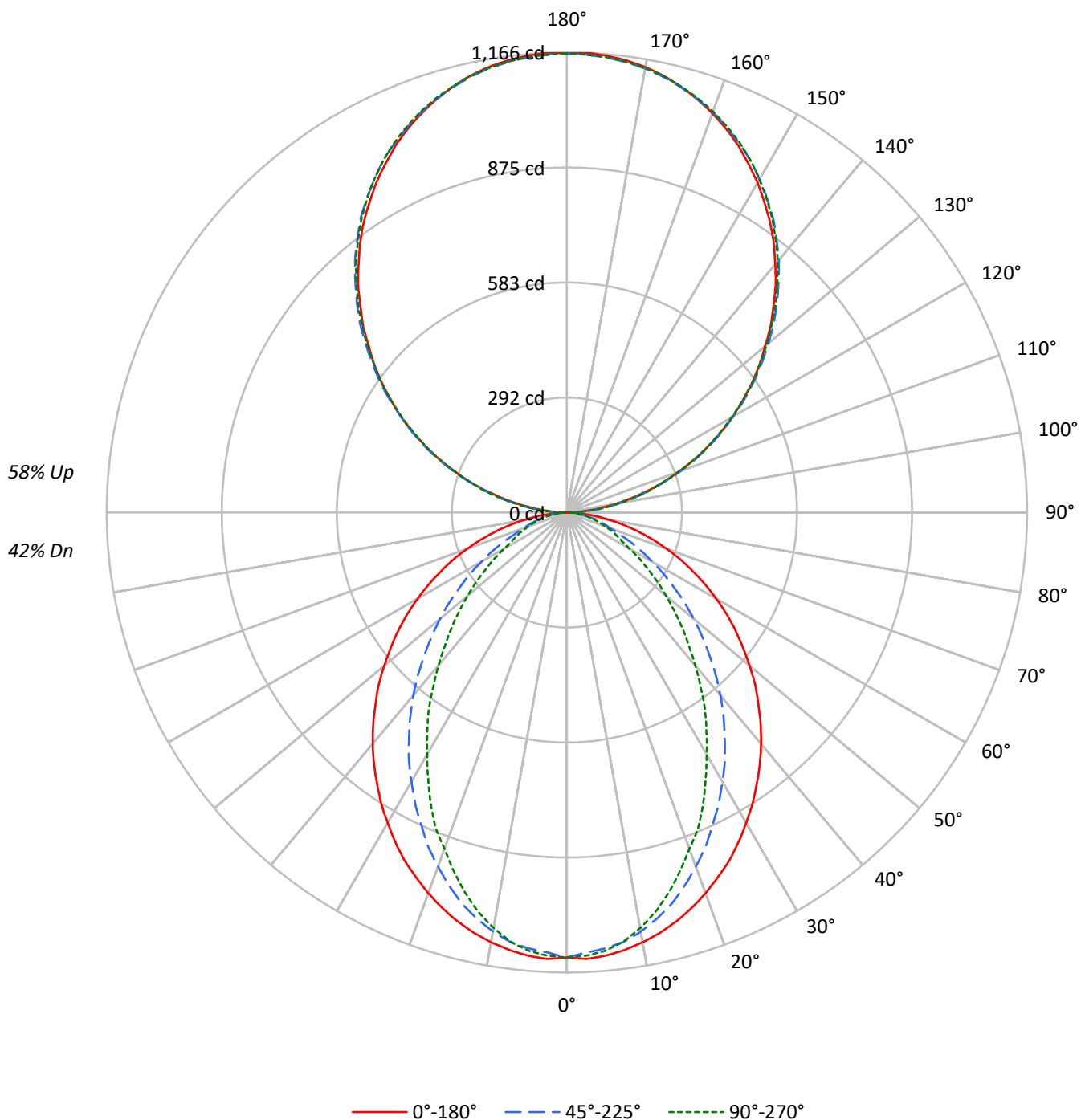
Lumens per Lamp: N/A
Luminaire Lumens: 5577.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36
3	81	71	64	59	73	66	60	55	54	50	46	44	41	38	35	33	31
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	28	26	24
6	63	51	43	38	57	47	40	35	39	34	30	32	29	26	26	23	21
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17
9	50	38	31	26	46	35	29	25	30	25	21	25	21	18	20	17	15
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14

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	1.9
10°-20°	290.1	5.2
20°-30°	407.3	7.3
30°-40°	444.0	8.0
40°-50°	408.1	7.3
50°-60°	320.5	5.7
60°-70°	208.6	3.7
70°-80°	107.4	1.9
80°-90°	30.7	0.6
90°-100°	72.0	1.3
100°-110°	228.9	4.1
110°-120°	391.7	7.0
120°-130°	515.2	9.2
130°-140°	578.3	10.4
140°-150°	567.1	10.2
150°-160°	475.7	8.5
160°-170°	315.5	5.7
170°-180°	110.3	2.0
0°-30°	803.1	14.4
0°-40°	1247.1	22.4
0°-60°	1975.6	35.4
0°-90°	2322.3	41.6
90°-120°	692.7	12.4
90°-150°	2353.2	42.2
90°-180°	3255.0	58.4
0°-180°	5577.0	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	13	34	32	33	5
95°	51	61	63	63	61	57
105°	211	214	216	218	218	223
115°	393	399	397	396	393	389
125°	572	581	578	575	574	511
135°	740	750	752	752	749	572
145°	898	905	911	912	908	561
155°	1027	1030	1032	1037	1034	473
165°	1117	1116	1116	1123	1118	315
175°	1162	1159	1157	1164	1158	110
180°	1164	1164	1164	1164	1164	

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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°	1.0	12.8	34.4	32.4	33.4
92.5°	21.6	29.5	30.5	31.4	31.4
95°	51.1	60.9	62.9	62.9	60.9
97.5°	85.5	94.3	98.2	98.2	98.2
100°	124.8	132.6	135.6	135.6	134.6
102.5°	166.0	171.9	175.8	176.8	175.8
105°	211.2	214.2	216.1	218.1	218.1
107.5°	256.4	260.3	260.3	261.3	256.4
110°	299.6	305.5	305.5	305.5	302.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	346.8	352.7	351.7	348.7	346.8
115°	393.0	398.8	396.9	395.9	393.0
117.5°	439.1	447.0	442.1	439.1	436.2
120°	485.3	493.2	485.3	485.3	482.4
122.5°	527.5	537.4	532.5	529.5	527.5
125°	571.7	580.6	577.6	574.7	573.7
127.5°	615.0	625.8	621.9	617.9	615.0
130°	655.3	668.0	666.1	664.1	660.2
132.5°	700.4	710.3	711.2	706.3	703.4
135°	739.7	750.5	752.5	751.5	748.6
137.5°	783.0	791.8	793.8	792.8	788.9
140°	821.3	830.1	835.0	835.0	831.1
142.5°	860.6	869.4	872.4	873.3	869.4
145°	897.9	904.8	910.7	911.7	907.7
147.5°	931.3	940.1	944.1	946.0	942.1
150°	965.7	971.6	975.5	978.5	975.5
152.5°	996.1	1002.0	1006.9	1010.9	1006.9
155°	1026.6	1029.5	1032.5	1037.4	1034.5
157.5°	1053.1	1055.1	1057.0	1063.9	1059.0
160°	1076.7	1078.7	1079.6	1085.5	1081.6
162.5°	1098.3	1098.3	1099.3	1106.2	1101.3
165°	1117.0	1116.0	1116.0	1122.9	1118.0
167.5°	1133.7	1130.7	1130.7	1137.6	1132.7
170°	1146.4	1143.5	1142.5	1149.4	1143.5
172.5°	1155.3	1152.3	1151.4	1158.2	1152.3
175°	1162.2	1159.2	1157.3	1164.1	1158.2
177.5°	1166.1	1163.1	1161.2	1167.1	1161.2
180°	1164.1	1164.1	1164.1	1164.1	1164.1

(END OF REPORT)