

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: P999894

Luminaire Tested: SA2XXRDIP-B675D1080UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999894
REPORT IS A COMBINATION OF REPORTS P988451 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B675D1080UB40-4F0-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

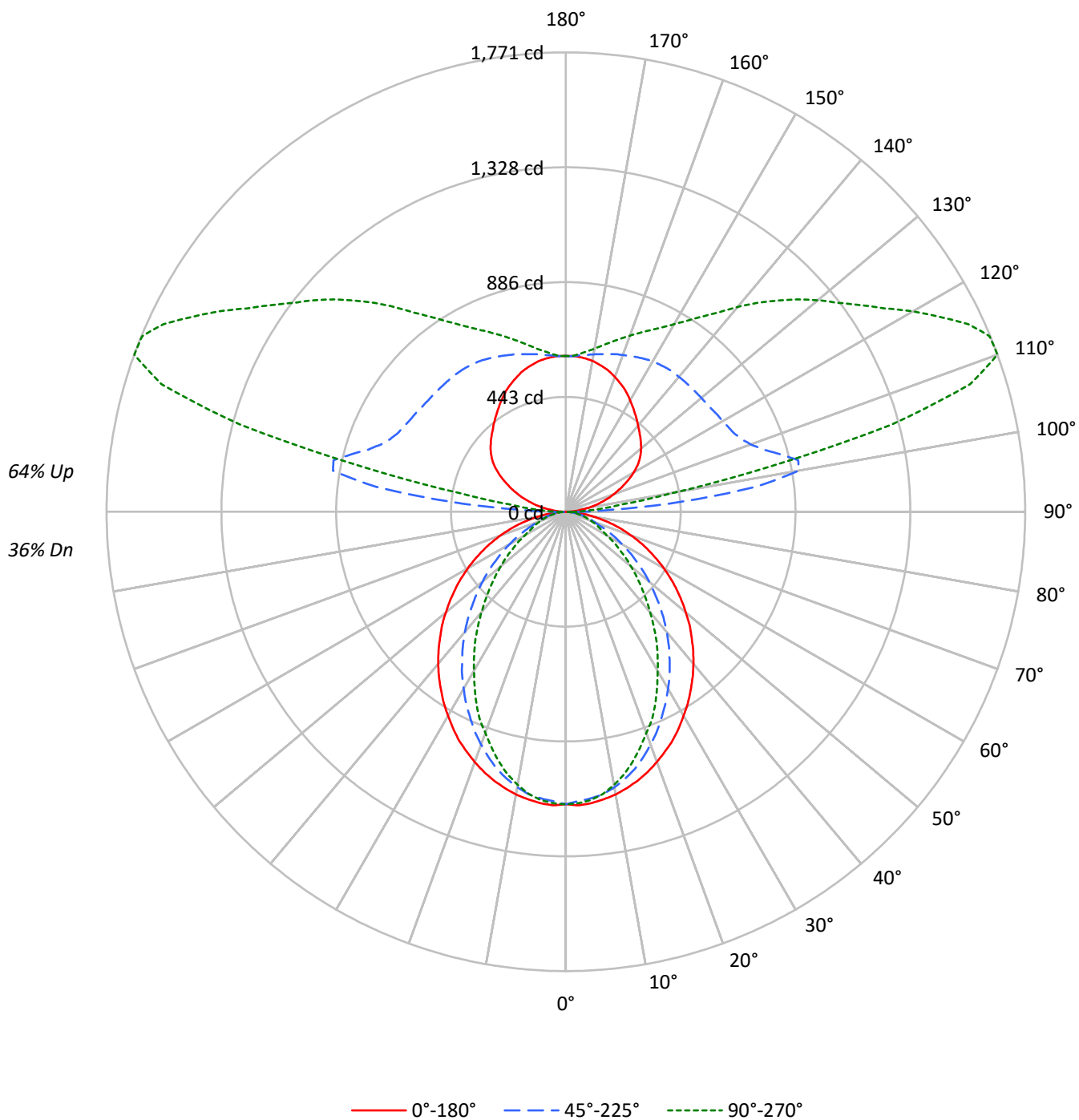
Lumens per Lamp: N/A
Luminaire Lumens: 6507.8 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43
1	95	91	87	84	86	82	79	76	66	64	62	52	51	49	38	38	37
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27
4	73	62	55	49	66	57	50	45	46	42	38	37	33	31	28	26	24
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21
6	61	50	42	37	56	46	39	34	38	32	29	30	26	24	23	20	19
7	57	45	37	32	51	41	35	30	34	29	25	27	24	21	21	18	17
8	53	41	34	28	48	38	31	26	31	26	23	25	21	19	19	17	15
9	49	37	30	25	44	34	28	24	28	24	20	23	19	17	18	15	14
10	46	34	27	23	42	31	25	21	26	21	18	21	18	15	17	14	12

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	1.6
10°-20°	290.1	4.5
20°-30°	407.3	6.3
30°-40°	444.0	6.8
40°-50°	408.1	6.3
50°-60°	320.5	4.9
60°-70°	208.6	3.2
70°-80°	107.4	1.7
80°-90°	31.3	0.5
90°-100°	243.3	3.7
100°-110°	822.6	12.6
110°-120°	864.7	13.3
120°-130°	711.0	10.9
130°-140°	571.4	8.8
140°-150°	431.6	6.6
150°-160°	303.4	4.7
160°-170°	178.7	2.7
170°-180°	58.1	0.9
0°-30°	803.1	12.3
0°-40°	1247.1	19.2
0°-60°	1975.6	30.4
0°-90°	2322.9	35.7
90°-120°	1930.6	29.7
90°-150°	3644.7	56.0
90°-180°	4185.0	64.3
0°-180°	6507.8	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	16	39	38	38	5
95°	40	99	452	171	132	42
105°	141	212	855	1529	1301	150
115°	248	313	716	1477	1712	246
125°	346	410	688	1196	1389	308
135°	406	485	680	1005	1151	314
145°	464	533	676	840	919	291
155°	528	570	657	743	772	243
165°	575	592	629	667	678	162
175°	599	600	605	612	611	57
180°	600	600	600	600	600	

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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°	1.2	15.6	39.2	37.5	38.1
92.5°	17.3	54.8	177.8	81.9	70.4
95°	40.4	99.2	452.5	170.8	131.6
97.5°	60.0	131.0	737.6	342.8	220.5
100°	88.9	160.4	911.9	682.8	413.2
102.5°	115.4	187.0	917.7	1154.4	805.7
105°	140.8	212.4	855.4	1528.9	1300.9
107.5°	168.5	237.8	797.6	1664.5	1634.5
110°	196.2	263.8	758.4	1642.6	1770.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.6	288.6	733.0	1568.2	1768.4
115°	248.2	313.4	715.7	1477.0	1711.9
117.5°	275.9	338.2	706.4	1389.8	1626.4
120°	301.3	362.5	698.4	1311.9	1544.5
122.5°	325.5	387.2	693.7	1251.3	1459.1
125°	346.3	409.8	688.0	1196.4	1388.7
127.5°	363.6	431.2	684.5	1149.7	1322.9
130°	378.6	450.2	682.2	1102.4	1268.6
132.5°	392.5	468.6	681.1	1053.3	1212.0
135°	406.3	484.8	679.9	1005.4	1150.9
137.5°	419.0	498.7	679.9	957.0	1092.0
140°	434.0	511.4	678.7	914.2	1030.8
142.5°	449.0	521.8	678.7	873.2	969.6
145°	464.0	533.3	676.4	839.8	918.8
147.5°	480.2	542.6	673.0	810.3	873.8
150°	496.4	551.8	669.5	785.0	834.6
152.5°	512.5	561.0	663.7	763.6	801.1
155°	527.5	569.6	656.8	742.8	772.2
157.5°	540.2	576.6	649.9	723.2	746.8
160°	552.9	583.6	643.0	703.6	722.6
162.5°	565.6	588.7	637.2	685.1	699.5
165°	574.9	592.2	629.1	667.2	677.6
167.5°	582.9	595.6	622.2	651.0	656.8
170°	591.0	597.4	616.4	636.0	638.3
172.5°	595.6	599.0	609.5	622.8	623.3
175°	599.1	599.7	604.9	612.3	610.6
177.5°	601.4	600.2	600.2	604.9	601.4
180°	600.2	600.2	600.2	600.2	600.2

(END OF REPORT)