

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: P1009675

Luminaire Tested: S122RDIP-B1005D1080UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009675
REPORT IS A COMBINATION OF REPORTS P987851 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B1005D1080UB40-4F0-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

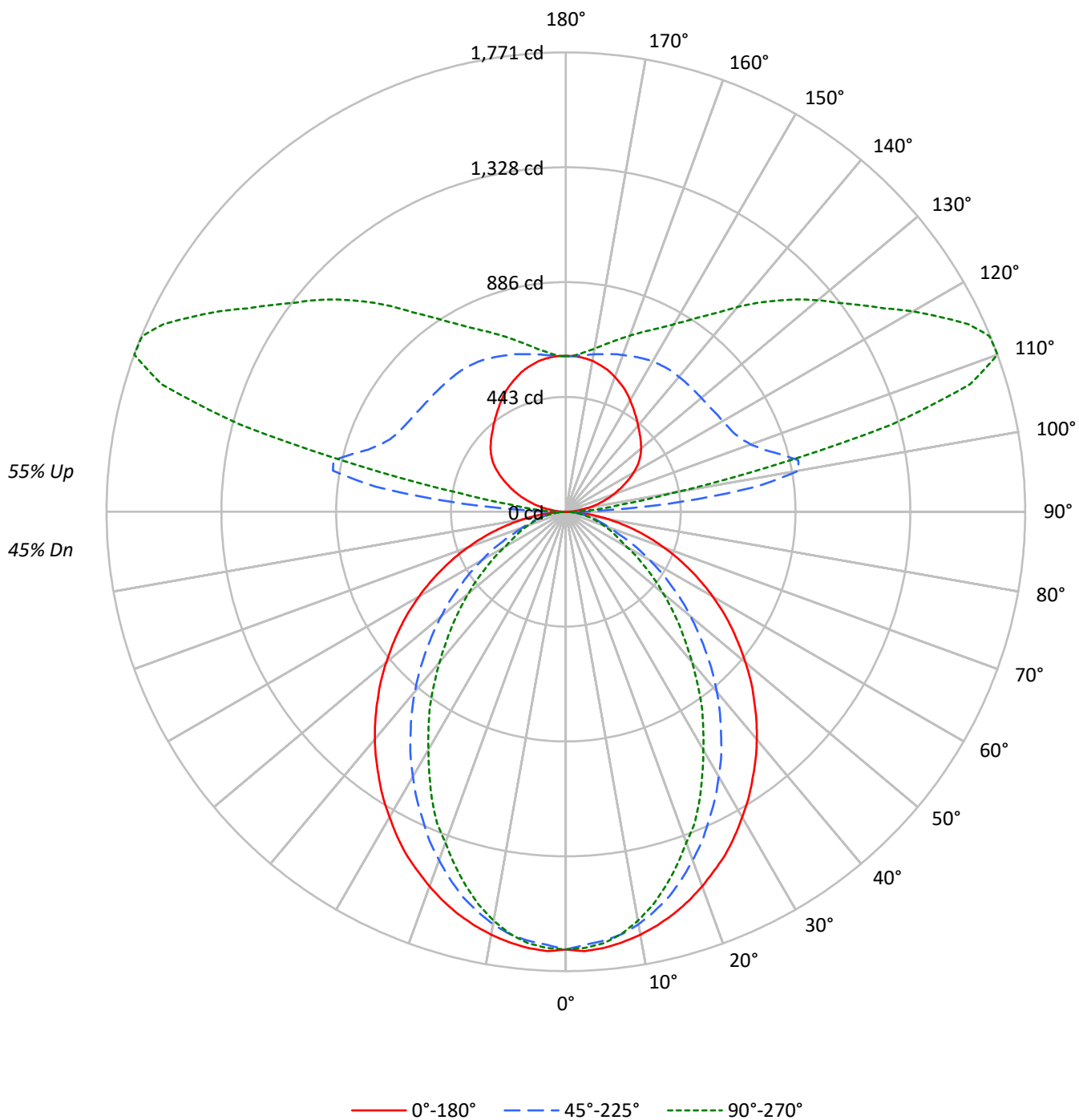
Lumens per Lamp: N/A
Luminaire Lumens: 7659.8 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45		
1	97	93	89	86	89	86	82	80	71	69	67	58	57	56	46	46	45	39		
2	89	82	76	71	81	75	70	66	63	59	56	52	49	47	41	40	38	33		
3	81	72	65	60	74	67	61	56	56	52	48	46	43	40	37	35	33	29		
4	75	64	57	51	68	59	53	48	50	45	41	41	38	35	33	31	29	25		
5	69	57	50	44	63	53	46	41	45	40	36	37	34	31	30	28	25	22		
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20		
7	59	47	39	34	54	43	36	32	37	32	28	31	27	24	25	22	20	18		
8	54	42	35	30	50	39	33	28	34	29	25	28	24	21	23	20	18	16		
9	51	39	32	27	47	36	30	25	31	26	22	26	22	19	22	19	17	14		
10	47	36	29	24	44	33	27	23	29	24	20	24	20	18	20	17	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26715	26715	26715
5°	26759	25416	25228
10°	26494	24106	23311
15°	26130	22559	21124
20°	25649	20799	18839
25°	25156	18994	16748
30°	24492	17236	14463
35°	23844	15464	12501
40°	23184	13722	10481
45°	22417	11925	8719
50°	21623	10191	7098
55°	20797	8460	5635
60°	19836	6765	4264
65°	18731	5159	3465
70°	17396	3742	2756
75°	15719	2854	2105
80°	13293	1932	1413
85°	9281	884	682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22417 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	2.1
10°-20°	434.2	5.7
20°-30°	609.6	8.0
30°-40°	664.5	8.7
40°-50°	610.8	8.0
50°-60°	479.7	6.3
60°-70°	312.2	4.1
70°-80°	160.7	2.1
80°-90°	44.9	0.6
90°-100°	243.3	3.2
100°-110°	822.6	10.7
110°-120°	864.7	11.3
120°-130°	711.0	9.3
130°-140°	571.4	7.5
140°-150°	431.6	5.6
150°-160°	303.4	4.0
160°-170°	178.7	2.3
170°-180°	58.1	0.8
0°-30°	1202.0	15.7
0°-40°	1866.6	24.4
0°-60°	2957.0	38.6
0°-90°	3474.8	45.4
90°-120°	1930.6	25.2
90°-150°	3644.7	47.6
90°-180°	4185.0	54.6
0°-180°	7659.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1688	1680	1660	1674	1669	160
15°	1605	1588	1536	1508	1492	452
25°	1457	1408	1307	1245	1222	670
35°	1256	1178	1043	947	913	786
45°	1026	924	764	655	619	793
55°	780	661	496	405	376	697
65°	527	403	266	214	209	522
75°	281	174	122	112	110	297
85°	66	34	29	29	29	75
90°	1	16	39	38	38	6
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°	1687.7	1687.7	1687.7	1687.7	1687.7
2.5°	1695.4	1687.7	1670.9	1686.2	1683.1
5°	1687.7	1680.1	1660.2	1674.0	1669.4
7.5°	1674.0	1664.8	1643.4	1649.5	1641.9
10°	1655.6	1644.9	1614.4	1609.8	1600.7
12.5°	1632.7	1619.0	1577.7	1568.6	1551.8
15°	1605.2	1588.4	1536.5	1507.5	1492.2
17.5°	1573.2	1548.7	1484.6	1451.0	1426.5
20°	1536.5	1506.0	1429.6	1391.4	1357.8
22.5°	1496.8	1461.7	1373.1	1321.2	1298.2
25°	1457.1	1408.2	1307.4	1244.8	1221.9
27.5°	1409.7	1357.8	1246.3	1174.5	1139.4
30°	1359.3	1301.3	1179.1	1101.2	1060.0
32.5°	1310.5	1240.2	1115.0	1023.3	985.1
35°	1255.5	1177.6	1043.2	947.0	913.4
37.5°	1202.0	1118.0	976.0	870.6	832.4
40°	1145.5	1053.9	905.7	797.3	757.6
42.5°	1087.5	989.7	835.5	722.4	684.2
45°	1026.4	924.0	763.7	655.2	618.6
47.5°	968.3	859.9	694.9	586.5	552.9
50°	904.2	795.7	627.7	522.4	490.3
52.5°	841.6	727.0	563.6	462.8	433.8
55°	780.5	661.3	496.4	404.7	375.7
57.5°	717.9	595.7	436.8	351.3	326.9
60°	653.7	531.5	374.2	296.3	271.9
62.5°	591.1	468.9	320.7	247.4	235.2
65°	526.9	403.2	265.8	213.8	209.2
67.5°	465.8	342.1	213.8	187.9	183.3
70°	401.7	282.6	177.2	161.9	155.8
72.5°	340.6	227.6	148.2	135.9	132.9
75°	281.0	174.1	122.2	111.5	110.0
77.5°	221.5	123.7	96.2	90.1	87.1
80°	166.5	88.6	73.3	67.2	67.2
82.5°	116.1	59.6	50.4	47.3	47.3
85°	65.7	33.6	29.0	29.0	29.0
87.5°	24.4	12.2	12.2	10.7	10.7
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)