

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: P1010805

Luminaire Tested: S123RDIP-B1000D585UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010805
REPORT IS A COMBINATION OF REPORTS P992851 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D585UB2750-4F0-XX-W2A-F_3000K
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

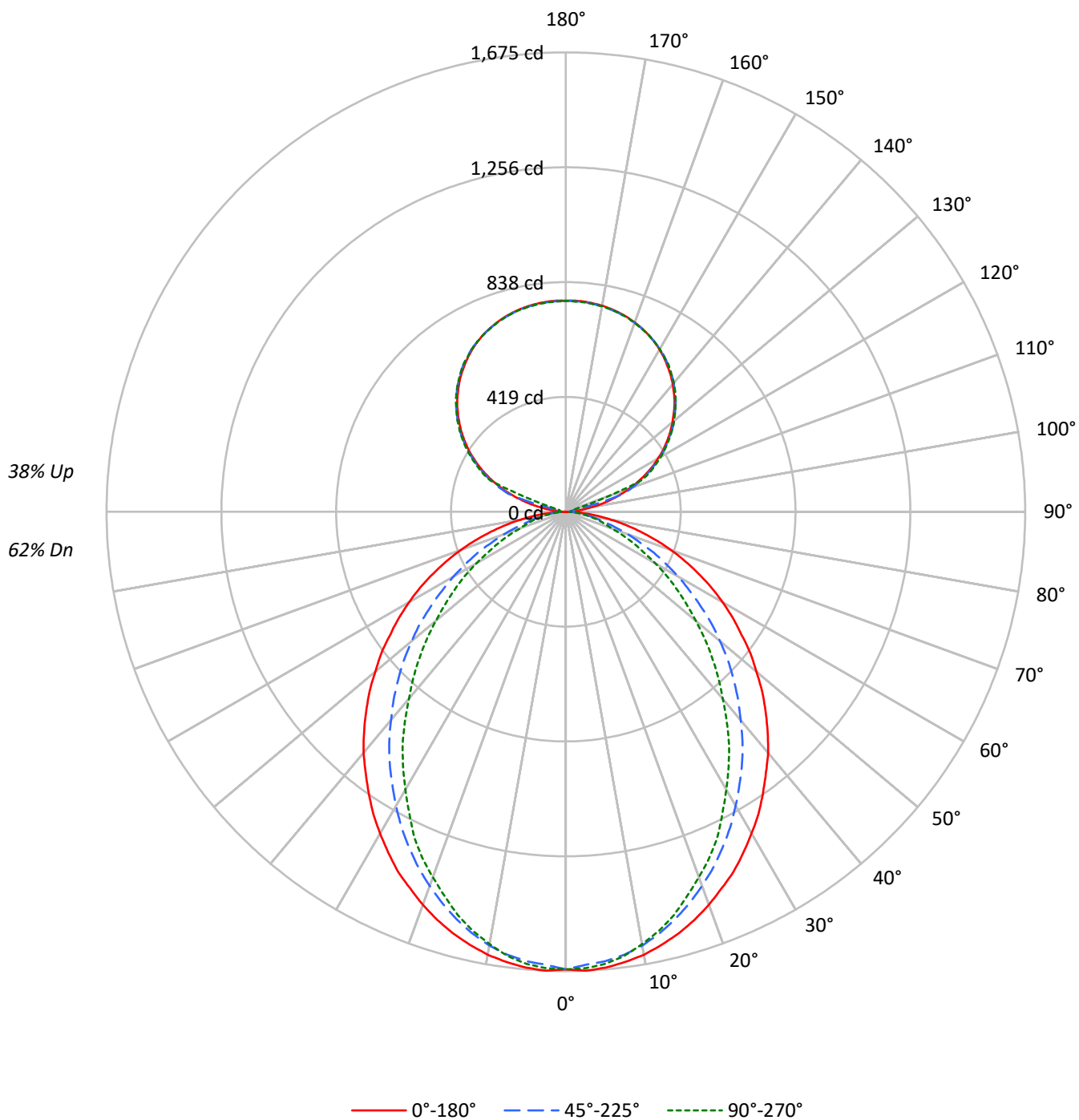
Lumens per Lamp: N/A
Luminaire Lumens: 6116.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	67	67	62
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	57	57	53
2	92	85	79	74	86	80	74	70	70	66	63	61	58	56	53	51	49	49	49	45
3	84	75	68	62	79	70	64	59	62	57	53	54	51	47	47	44	42	42	42	38
4	77	67	59	53	72	63	56	50	56	50	46	49	44	41	43	39	37	37	37	33
5	71	60	51	45	66	56	49	44	50	44	40	44	39	36	39	35	32	32	32	29
6	66	54	46	40	61	51	43	38	45	39	35	40	35	32	35	31	28	28	28	26
7	61	49	41	35	57	46	39	34	41	35	31	36	32	28	32	28	25	25	25	23
8	57	44	37	31	53	42	35	30	38	32	28	33	29	25	30	26	23	23	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	24	21	21	21	19
10	49	37	30	25	46	35	29	24	32	26	23	29	24	21	25	22	19	19	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17957	17957	17957
5°	17987	17322	17276
10°	17845	16671	16343
15°	17614	15866	15321
20°	17310	14990	14179
25°	16997	14081	13097
30°	16594	13112	11818
35°	16180	12162	10653
40°	15791	11130	9366
45°	15292	10120	8209
50°	14741	9043	7011
55°	14171	7889	5914
60°	13625	6705	4801
65°	12921	5491	3747
70°	12033	4151	2678
75°	10758	2811	2122
80°	9180	1953	1489
85°	6887	1055	780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15292 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	2.6
10°-20°	436.3	7.1
20°-30°	628.2	10.3
30°-40°	707.4	11.6
40°-50°	676.7	11.1
50°-60°	553.9	9.1
60°-70°	373.5	6.1
70°-80°	187.3	3.1
80°-90°	50.5	0.8
90°-100°	27.1	0.4
100°-110°	131.2	2.1
110°-120°	321.4	5.3
120°-130°	408.1	6.7
130°-140°	435.9	7.1
140°-150°	407.6	6.7
150°-160°	328.8	5.4
160°-170°	212.2	3.5
170°-180°	73.1	1.2
0°-30°	1221.3	20.0
0°-40°	1928.7	31.5
0°-60°	3159.3	51.7
0°-90°	3770.5	61.7
90°-120°	479.7	7.8
90°-150°	1731.3	28.3
90°-180°	2345.0	38.3
0°-180°	6116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1668	1662	1645	1658	1655	158
15°	1591	1576	1538	1532	1522	448
25°	1448	1414	1352	1323	1308	666
35°	1253	1204	1120	1062	1038	784
45°	1030	969	865	788	755	795
55°	782	716	601	522	495	701
65°	534	460	354	288	273	529
75°	283	218	143	130	127	301
85°	72	42	38	35	35	79
90°	1	6	14	16	17	6
95°	35	11	18	22	22	42
105°	170	177	125	24	25	181
115°	320	323	328	334	336	316
125°	450	455	457	458	460	402
135°	561	564	566	568	566	432
145°	647	651	652	653	653	405
155°	713	712	712	715	712	328
165°	752	750	749	754	750	212
175°	769	766	767	771	766	73
180°	769	769	769	769	769	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1668.3	1668.3	1668.3	1668.3	1668.3
2.5°	1675.1	1669.7	1653.4	1668.3	1665.6
5°	1668.3	1661.5	1645.3	1657.5	1654.8
7.5°	1656.1	1649.4	1629.1	1637.2	1633.1
10°	1639.9	1630.4	1606.1	1607.4	1600.7
12.5°	1616.9	1606.1	1574.9	1573.6	1565.5
15°	1591.2	1576.3	1538.4	1531.6	1522.2
17.5°	1560.1	1543.8	1496.5	1482.9	1469.4
20°	1524.9	1503.2	1451.8	1434.2	1418.0
22.5°	1485.6	1459.9	1404.5	1381.5	1366.6
25°	1447.8	1413.9	1351.7	1323.3	1308.4
27.5°	1401.8	1365.2	1297.6	1259.7	1236.7
30°	1354.4	1313.8	1238.0	1192.0	1170.4
32.5°	1307.0	1259.7	1178.5	1127.1	1104.1
35°	1252.9	1204.2	1120.3	1062.1	1037.8
37.5°	1198.8	1146.0	1058.1	993.1	963.4
40°	1147.4	1087.8	991.8	921.4	890.3
42.5°	1089.2	1029.7	929.5	851.1	824.0
45°	1029.7	968.8	864.6	787.5	755.0
47.5°	971.5	903.8	801.0	717.1	688.7
50°	906.5	842.9	733.4	649.5	618.3
52.5°	848.4	778.0	669.8	581.8	554.7
55°	782.1	715.8	600.8	522.3	495.2
57.5°	722.5	650.8	534.5	460.0	437.0
60°	660.3	585.9	473.6	400.5	377.5
62.5°	598.0	523.6	411.3	343.7	319.3
65°	534.5	460.0	354.5	288.2	273.3
67.5°	470.9	395.1	292.3	242.2	226.0
70°	408.6	335.6	240.8	193.5	178.6
72.5°	346.4	274.7	190.8	154.2	150.2
75°	282.8	217.8	143.4	129.9	127.2
77.5°	224.6	165.1	112.3	104.2	101.5
80°	169.1	113.7	85.2	81.2	78.5
82.5°	116.4	70.4	60.9	56.8	56.8
85°	71.7	41.9	37.9	35.2	35.2
87.5°	32.5	17.6	17.6	16.2	14.9
90°	0.6	6.3	13.7	16.0	17.1
92.5°	13.1	9.7	14.9	18.9	19.4
95°	34.9	11.4	17.7	21.7	21.7
97.5°	63.4	47.4	18.3	22.9	23.4
100°	96.6	108.0	18.9	23.4	24.0
102.5°	134.3	141.8	42.3	23.4	24.6
105°	170.3	176.6	125.2	24.0	25.2
107.5°	208.6	213.8	222.3	134.3	59.4
110°	246.9	251.5	257.8	238.9	157.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.5	287.5	293.8	298.9	297.8
115°	319.5	322.9	328.1	333.8	336.1
117.5°	355.0	359.0	361.8	366.4	367.0
120°	387.5	392.7	394.4	399.0	399.0
122.5°	420.7	424.7	427.0	429.8	430.4
125°	450.4	455.0	457.3	458.4	459.6
127.5°	480.1	484.7	487.6	489.3	488.1
130°	507.6	512.1	514.4	516.7	515.6
132.5°	533.9	538.4	540.2	542.4	540.7
135°	560.7	564.2	566.4	568.2	566.4
137.5°	583.6	588.2	589.3	592.2	591.0
140°	606.5	609.9	611.6	613.9	612.7
142.5°	627.6	631.0	632.8	634.5	632.8
145°	647.0	651.0	652.2	653.3	653.3
147.5°	665.9	668.8	669.9	671.0	668.2
150°	683.1	684.8	685.9	687.1	685.3
152.5°	698.5	699.1	699.6	701.9	699.1
155°	712.8	711.6	712.2	715.1	711.6
157.5°	724.2	724.2	723.6	727.1	722.5
160°	734.5	733.9	733.4	736.8	732.8
162.5°	744.2	742.5	741.9	745.9	742.5
165°	751.6	749.9	749.4	753.9	749.9
167.5°	757.9	755.6	755.6	760.2	755.6
170°	763.1	760.8	760.8	765.4	760.8
172.5°	766.5	763.6	764.2	768.8	763.6
175°	769.4	766.5	767.1	771.1	766.5
177.5°	770.5	767.6	768.2	772.8	767.1
180°	769.4	769.4	769.4	769.4	769.4

(END OF REPORT)