

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: P1012212

Luminaire Tested: S123RDIP-B1000D585UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012212
REPORT IS A COMBINATION OF REPORTS P992859 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D585UB30-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

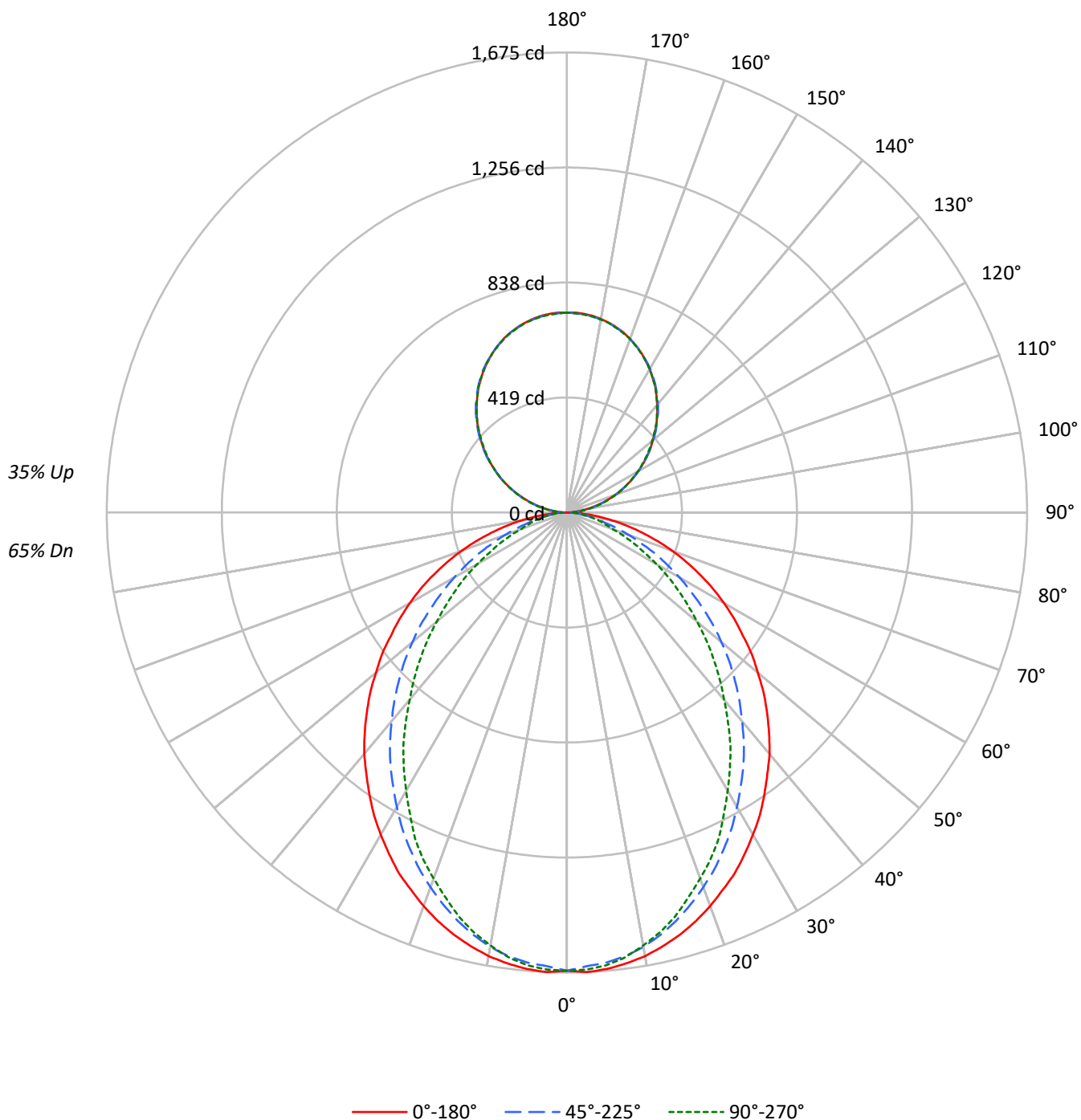
Lumens per Lamp: N/A
Luminaire Lumens: 5787.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	102	97	94	90	95	92	88	85	81	79	76	72	70	68	63	61	60
2	93	86	79	74	87	81	75	71	72	68	64	63	60	57	56	53	51
3	85	76	68	62	80	71	65	60	64	58	54	56	52	49	50	47	44
4	78	67	59	53	73	64	57	51	57	51	47	51	46	42	45	41	38
5	72	60	52	46	67	57	50	44	51	45	41	46	41	37	40	37	34
6	66	54	46	40	62	51	44	39	46	40	36	41	36	33	37	33	30
7	62	49	41	36	58	47	39	34	42	36	32	38	33	29	34	30	27
8	57	45	37	32	54	43	36	31	39	33	28	35	30	26	31	27	24
9	53	41	34	28	50	39	32	27	35	30	26	32	27	24	29	25	22
10	50	38	31	26	47	36	29	25	33	27	23	30	25	22	27	23	20

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	2.7
10°-20°	436.3	7.5
20°-30°	628.2	10.9
30°-40°	707.4	12.2
40°-50°	676.7	11.7
50°-60°	553.9	9.6
60°-70°	373.5	6.5
70°-80°	187.3	3.2
80°-90°	50.5	0.9
90°-100°	46.8	0.8
100°-110°	141.8	2.5
110°-120°	241.4	4.2
120°-130°	317.6	5.5
130°-140°	356.9	6.2
140°-150°	350.9	6.1
150°-160°	295.4	5.1
160°-170°	196.7	3.4
170°-180°	68.9	1.2
0°-30°	1221.3	21.1
0°-40°	1928.7	33.3
0°-60°	3159.3	54.6
0°-90°	3770.5	65.2
90°-120°	430.0	7.4
90°-150°	1455.5	25.2
90°-180°	2016.0	34.8
0°-180°	5787.0	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	7
95°	34	38	42	45	45	37
105°	129	130	135	135	136	138
115°	243	245	244	244	244	240
125°	356	357	356	354	352	317
135°	461	465	464	462	461	355
145°	560	561	562	562	560	350
155°	641	641	641	644	640	295
165°	698	696	696	700	696	197
175°	726	724	724	727	723	69
180°	728	728	728	728	728	

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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	17.2
92.5°	17.2	20.6	24.0	25.7	24.6
95°	33.7	37.7	42.3	44.6	44.6
97.5°	55.5	58.3	61.7	64.6	64.0
100°	77.7	81.2	84.0	85.8	86.9
102.5°	103.5	105.2	109.2	110.9	110.3
105°	128.6	129.8	134.9	134.9	136.1
107.5°	158.4	158.9	161.2	162.9	162.4
110°	185.8	186.9	188.1	190.4	189.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.4	215.0	215.0	217.8	217.8
115°	243.0	244.7	243.5	244.1	243.5
117.5°	272.1	272.7	271.5	271.5	269.8
120°	299.0	302.4	299.6	299.0	297.8
122.5°	327.0	329.3	328.1	326.4	324.7
125°	355.6	357.3	356.2	353.9	351.6
127.5°	381.9	385.3	384.2	380.7	378.5
130°	408.2	412.8	411.0	408.8	404.7
132.5°	434.5	439.1	437.9	435.0	432.2
135°	461.3	464.8	464.2	461.9	460.8
137.5°	485.9	488.8	490.5	487.6	485.9
140°	511.7	514.5	515.1	514.5	510.5
142.5°	535.1	538.0	539.1	538.5	535.7
145°	559.7	560.8	562.5	562.0	559.7
147.5°	580.8	583.1	584.8	584.8	581.4
150°	603.1	604.3	605.4	605.4	602.0
152.5°	621.4	623.1	623.7	624.8	622.0
155°	640.9	640.9	641.4	643.7	639.7
157.5°	657.4	656.9	657.4	659.7	656.3
160°	672.9	671.7	671.7	674.6	672.3
162.5°	686.6	684.9	685.4	688.3	684.3
165°	698.0	696.3	696.3	699.7	695.7
167.5°	707.7	705.5	706.0	709.5	706.0
170°	715.7	713.5	713.5	717.5	713.5
172.5°	722.0	719.7	719.7	723.2	719.2
175°	726.0	723.7	723.7	727.2	723.2
177.5°	728.3	726.0	726.0	729.5	725.5
180°	727.7	727.7	727.7	727.7	727.7

(END OF REPORT)