

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: P1012387

Luminaire Tested: S123RDIP-B1165D805UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012387
REPORT IS A COMBINATION OF REPORTS P993098 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D805UB30-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

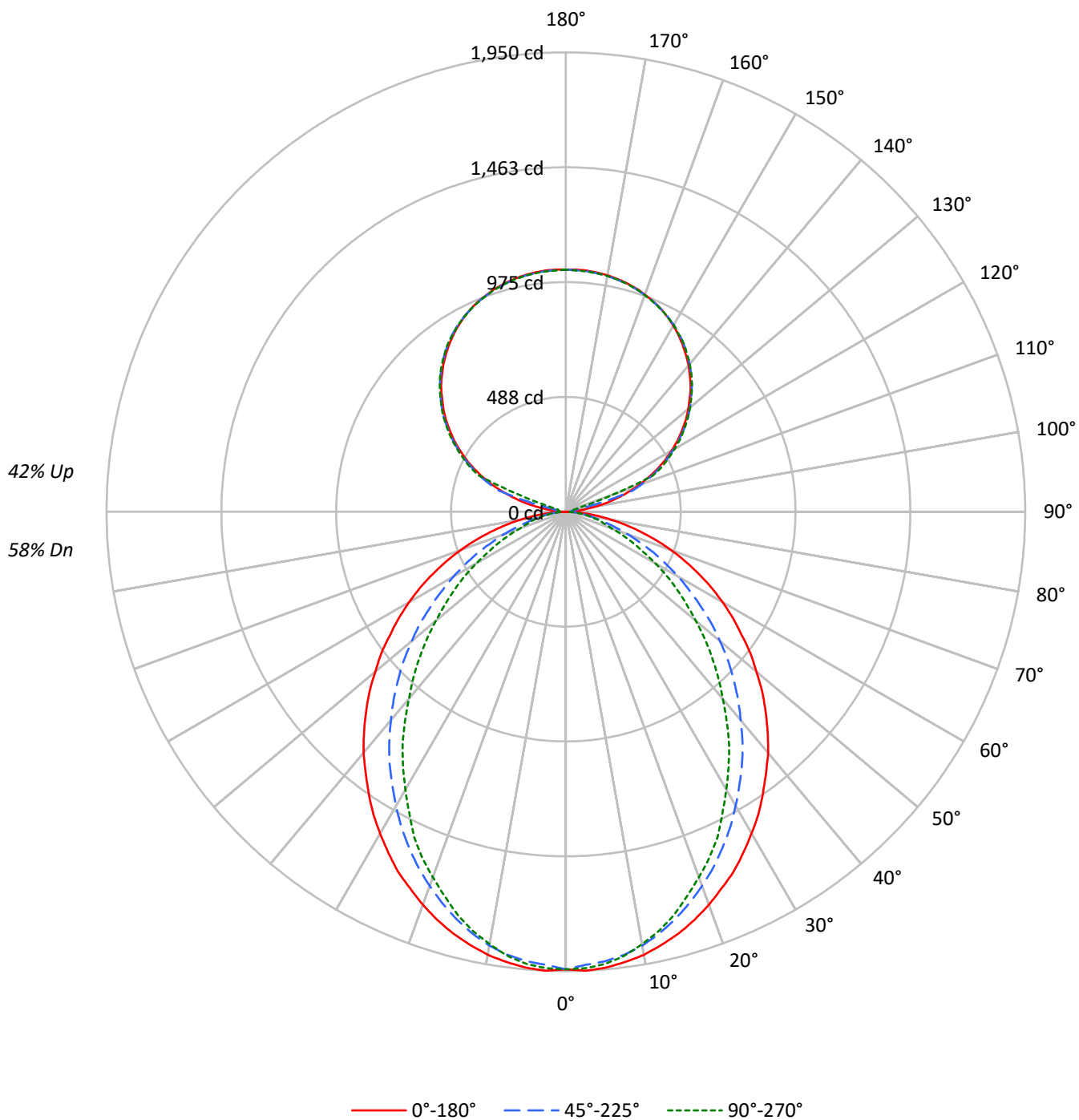
Lumens per Lamp: N/A
Luminaire Lumens: 7523.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	100	96	92	89	93	90	86	83	78	75	73	67	65	64	57	56	55
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	42	40
4	77	66	58	52	71	62	55	50	54	49	45	47	43	40	41	37	35
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	33	30	27
7	60	48	40	35	56	45	38	33	40	34	30	35	31	27	31	27	24
8	56	44	36	31	52	41	34	29	37	31	27	32	28	24	28	25	22
9	52	40	33	28	49	38	31	26	34	28	24	30	25	22	26	22	20
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	24	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20907	20907	20907
5°	20941	20167	20112
10°	20776	19408	19026
15°	20506	18472	17837
20°	20152	17453	16507
25°	19787	16393	15248
30°	19319	15266	13759
35°	18838	14159	12402
40°	18384	12958	10904
45°	17804	11782	9558
50°	17162	10527	8164
55°	16498	9184	6885
60°	15862	7805	5589
65°	15041	6392	4362
70°	14009	4834	3117
75°	12523	3274	2471
80°	10690	2274	1733
85°	8021	1228	909

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17804 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	2.4
10°-20°	507.9	6.8
20°-30°	731.3	9.7
30°-40°	823.6	10.9
40°-50°	787.8	10.5
50°-60°	644.9	8.6
60°-70°	434.8	5.8
70°-80°	218.1	2.9
80°-90°	59.1	0.8
90°-100°	36.2	0.5
100°-110°	175.2	2.3
110°-120°	429.3	5.7
120°-130°	545.1	7.2
130°-140°	582.3	7.7
140°-150°	544.5	7.2
150°-160°	439.2	5.8
160°-170°	283.4	3.8
170°-180°	97.7	1.3
0°-30°	1421.8	18.9
0°-40°	2245.4	29.8
0°-60°	3678.1	48.9
0°-90°	4390.1	58.4
90°-120°	640.8	8.5
90°-150°	2312.6	30.7
90°-180°	3133.0	41.6
0°-180°	7523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1942	1934	1916	1930	1926	184
15°	1852	1835	1791	1783	1772	522
25°	1686	1646	1574	1541	1523	775
35°	1459	1402	1304	1237	1208	913
45°	1199	1128	1007	917	879	925
55°	910	833	699	608	576	817
65°	622	536	413	336	318	616
75°	329	254	167	151	148	351
85°	84	49	44	41	41	91
90°	1	8	18	21	23	8
95°	47	15	24	29	29	56
105°	228	236	167	32	34	241
115°	427	431	438	446	449	422
125°	602	608	611	612	614	538
135°	749	754	757	759	757	577
145°	864	870	871	873	873	541
155°	952	951	951	955	951	439
165°	1004	1002	1001	1007	1002	284
175°	1028	1024	1025	1030	1024	98
180°	1028	1028	1028	1028	1028	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1942.3	1942.3	1942.3	1942.3	1942.3
2.5°	1950.2	1943.9	1925.0	1942.3	1939.1
5°	1942.3	1934.4	1915.5	1929.7	1926.5
7.5°	1928.1	1920.2	1896.6	1906.1	1901.3
10°	1909.2	1898.2	1869.8	1871.4	1863.5
12.5°	1882.4	1869.8	1833.6	1832.0	1822.6
15°	1852.5	1835.2	1791.1	1783.2	1772.2
17.5°	1816.3	1797.4	1742.2	1726.5	1710.7
20°	1775.3	1750.1	1690.3	1669.8	1650.9
22.5°	1729.6	1699.7	1635.1	1608.3	1591.0
25°	1685.5	1646.2	1573.7	1540.6	1523.3
27.5°	1632.0	1589.4	1510.7	1466.6	1439.8
30°	1576.8	1529.6	1441.4	1387.8	1362.6
32.5°	1521.7	1466.6	1372.1	1312.2	1285.4
35°	1458.7	1402.0	1304.3	1236.6	1208.2
37.5°	1395.7	1334.2	1231.9	1156.2	1121.6
40°	1335.8	1266.5	1154.7	1072.8	1036.5
42.5°	1268.1	1198.8	1082.2	990.8	959.3
45°	1198.8	1127.9	1006.6	916.8	879.0
47.5°	1131.0	1052.3	932.6	834.9	801.8
50°	1055.4	981.4	853.8	756.1	719.9
52.5°	987.7	905.8	779.8	677.4	645.9
55°	910.5	833.3	699.4	608.1	576.5
57.5°	841.2	757.7	622.2	535.6	508.8
60°	768.7	682.1	551.3	466.3	439.5
62.5°	696.3	609.6	478.9	400.1	371.8
65°	622.2	535.6	412.7	335.5	318.2
67.5°	548.2	460.0	340.3	282.0	263.1
70°	475.7	390.7	280.4	225.3	207.9
72.5°	403.3	319.8	222.1	179.6	174.9
75°	329.2	253.6	167.0	151.2	148.1
77.5°	261.5	192.2	130.7	121.3	118.1
80°	196.9	132.3	99.2	94.5	91.4
82.5°	135.5	81.9	70.9	66.2	66.2
85°	83.5	48.8	44.1	41.0	41.0
87.5°	37.8	20.5	20.5	18.9	17.3
90°	0.8	8.4	18.3	21.4	22.9
92.5°	17.6	13.0	19.9	25.2	26.0
95°	46.6	15.3	23.7	29.0	29.0
97.5°	84.7	63.4	24.4	30.5	31.3
100°	129.0	144.3	25.2	31.3	32.1
102.5°	179.4	189.3	56.5	31.3	32.8
105°	227.5	235.9	167.2	32.1	33.6
107.5°	278.7	285.5	297.0	179.4	79.4
110°	329.8	335.9	344.3	319.1	210.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	378.7	384.0	392.4	399.3	397.8
115°	426.8	431.4	438.2	445.9	448.9
117.5°	474.1	479.5	483.3	489.4	490.2
120°	517.7	524.5	526.8	532.9	532.9
122.5°	561.9	567.3	570.3	574.2	574.9
125°	601.6	607.7	610.8	612.3	613.9
127.5°	641.3	647.4	651.3	653.6	652.0
130°	678.0	684.1	687.2	690.2	688.7
132.5°	713.1	719.2	721.5	724.6	722.3
135°	749.0	753.6	756.6	758.9	756.6
137.5°	779.5	785.6	787.2	791.0	789.5
140°	810.1	814.7	816.9	820.0	818.5
142.5°	838.3	842.9	845.2	847.5	845.2
145°	864.3	869.6	871.2	872.7	872.7
147.5°	889.5	893.3	894.8	896.4	892.5
150°	912.4	914.7	916.2	917.7	915.4
152.5°	933.0	933.8	934.5	937.6	933.8
155°	952.1	950.6	951.3	955.1	950.6
157.5°	967.4	967.4	966.6	971.2	965.1
160°	981.1	980.3	979.6	984.2	978.8
162.5°	994.1	991.8	991.0	996.4	991.8
165°	1004.0	1001.7	1001.0	1007.1	1001.7
167.5°	1012.4	1009.3	1009.3	1015.5	1009.3
170°	1019.3	1016.2	1016.2	1022.3	1016.2
172.5°	1023.9	1020.0	1020.8	1026.9	1020.0
175°	1027.7	1023.9	1024.6	1030.0	1023.9
177.5°	1029.2	1025.4	1026.1	1032.3	1024.6
180°	1027.7	1027.7	1027.7	1027.7	1027.7

(END OF REPORT)