

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: P1012271

Luminaire Tested: S123RDIP-B1165D1025UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012271
REPORT IS A COMBINATION OF REPORTS P992940 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D1025UB30-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

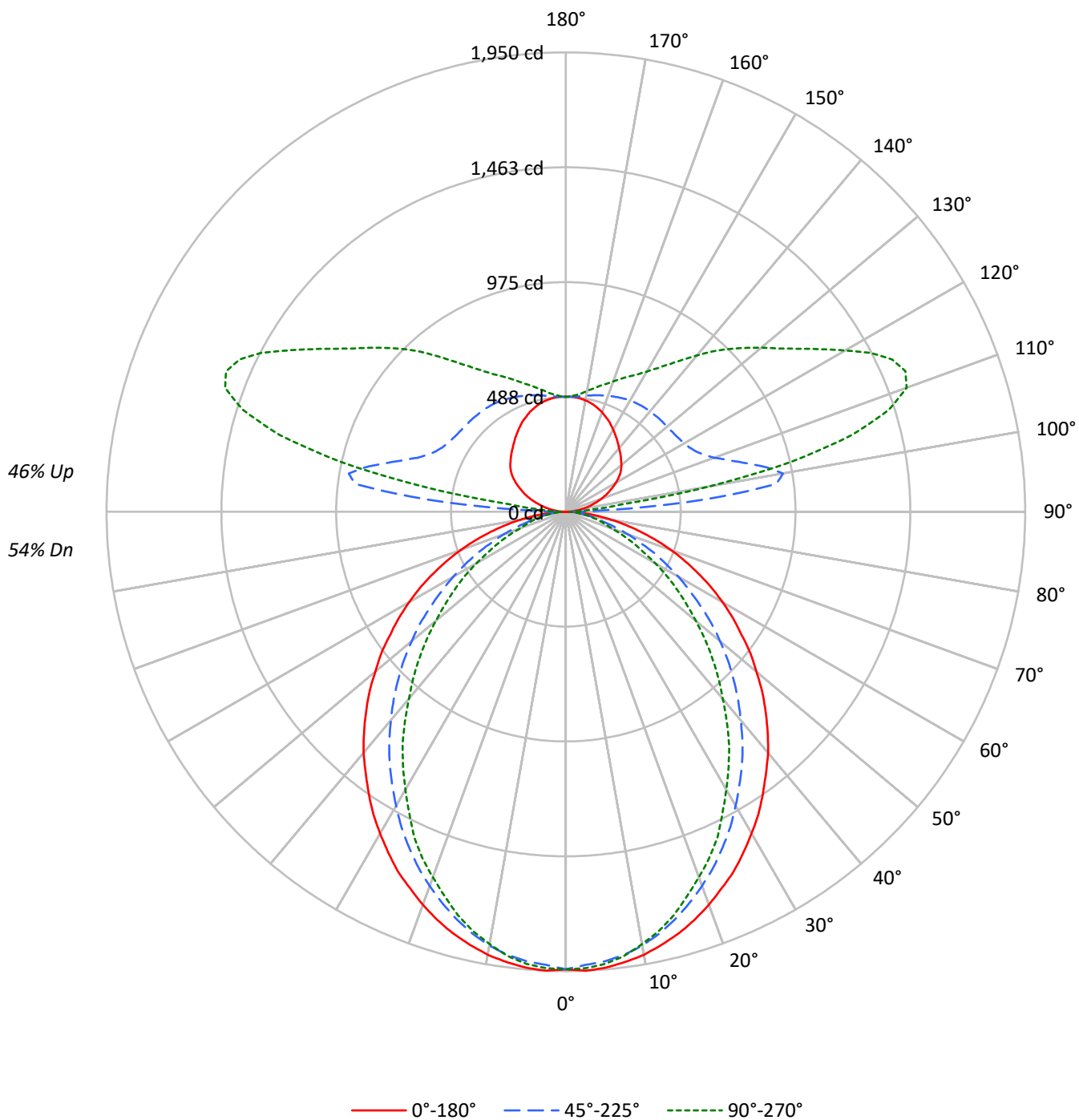
Lumens per Lamp: N/A
Luminaire Lumens: 8071.6 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44
3	83	74	66	61	77	69	62	57	59	54	50	51	47	44	43	40	38
4	76	65	58	52	70	61	54	49	53	48	43	45	41	38	38	35	33
5	70	58	50	44	65	55	47	42	47	42	38	41	37	33	35	31	29
6	64	52	44	39	60	49	42	37	43	37	33	37	33	29	32	28	26
7	60	48	40	34	55	45	37	32	39	33	29	34	29	26	29	25	23
8	55	43	36	30	51	41	34	29	36	30	26	31	27	23	27	23	21
9	52	40	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19
10	48	36	29	24	45	34	28	23	30	25	21	26	22	19	23	19	17

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	2.3
10°-20°	507.9	6.3
20°-30°	731.3	9.1
30°-40°	823.6	10.2
40°-50°	787.8	9.8
50°-60°	644.9	8.0
60°-70°	434.8	5.4
70°-80°	218.1	2.7
80°-90°	59.8	0.7
90°-100°	277.4	3.4
100°-110°	775.4	9.6
110°-120°	756.1	9.4
120°-130°	602.1	7.5
130°-140°	475.2	5.9
140°-150°	354.6	4.4
150°-160°	247.4	3.1
160°-170°	145.3	1.8
170°-180°	47.3	0.6
0°-30°	1421.8	17.6
0°-40°	2245.4	27.8
0°-60°	3678.1	45.6
0°-90°	4390.7	54.4
90°-120°	1809.0	22.4
90°-150°	3240.9	40.2
90°-180°	3681.0	45.6
0°-180°	8071.6	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°	2	12	25	28	29	8
95°	34	109	586	171	115	36
105°	115	170	795	1389	1257	122
115°	203	252	608	1333	1529	201
125°	282	332	567	1028	1206	250
135°	330	394	559	846	977	255
145°	376	431	552	694	764	236
155°	428	462	535	608	634	197
165°	467	481	512	543	552	132
175°	487	488	491	498	497	46
180°	488	488	488	488	488	

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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°	2.0	11.9	24.7	27.7	28.7
92.5°	14.8	59.3	183.8	62.8	52.4
95°	33.6	109.2	586.0	171.0	114.6
97.5°	53.4	125.0	901.3	429.9	235.2
100°	73.1	137.8	935.9	899.4	619.6
102.5°	93.9	152.7	871.6	1204.2	981.3
105°	114.6	169.5	794.6	1389.4	1257.1
107.5°	136.4	189.2	726.4	1471.1	1436.9
110°	160.1	209.5	670.0	1473.5	1539.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.8	230.8	632.5	1417.6	1560.5
115°	202.6	252.5	607.8	1332.6	1528.8
117.5°	223.3	273.2	591.0	1241.8	1459.7
120°	245.1	294.0	580.1	1155.8	1368.7
122.5°	263.9	313.8	573.2	1088.0	1283.8
125°	281.7	332.5	567.3	1027.8	1205.7
127.5°	295.5	350.4	564.3	978.4	1138.5
130°	308.3	366.2	561.3	932.9	1083.1
132.5°	318.2	380.5	560.3	890.4	1028.8
135°	330.1	393.8	559.4	846.4	977.4
137.5°	341.0	404.6	557.4	804.9	923.0
140°	351.8	414.6	556.4	764.4	865.7
142.5°	363.7	423.4	554.4	727.4	812.4
145°	376.5	431.4	552.4	694.2	763.9
147.5°	389.4	439.8	549.5	668.6	722.4
150°	402.2	446.7	545.5	645.8	686.8
152.5°	415.1	454.1	540.6	626.1	657.2
155°	427.9	461.5	534.6	607.8	633.5
157.5°	437.8	468.0	529.7	590.0	610.7
160°	449.7	473.4	523.8	573.7	589.0
162.5°	458.6	477.4	517.8	558.3	569.2
165°	467.4	480.8	511.9	543.0	552.4
167.5°	474.4	483.8	506.0	529.7	535.6
170°	480.3	485.2	500.1	517.8	520.8
172.5°	484.2	486.7	495.1	507.5	507.0
175°	487.2	487.7	491.2	498.1	497.1
177.5°	489.2	488.2	488.2	492.2	490.2
180°	488.2	488.2	488.2	488.2	488.2

(END OF REPORT)