

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: P1012251

Luminaire Tested: S123RDIP-B1000D805UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012251
REPORT IS A COMBINATION OF REPORTS P992910 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D805UB40-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

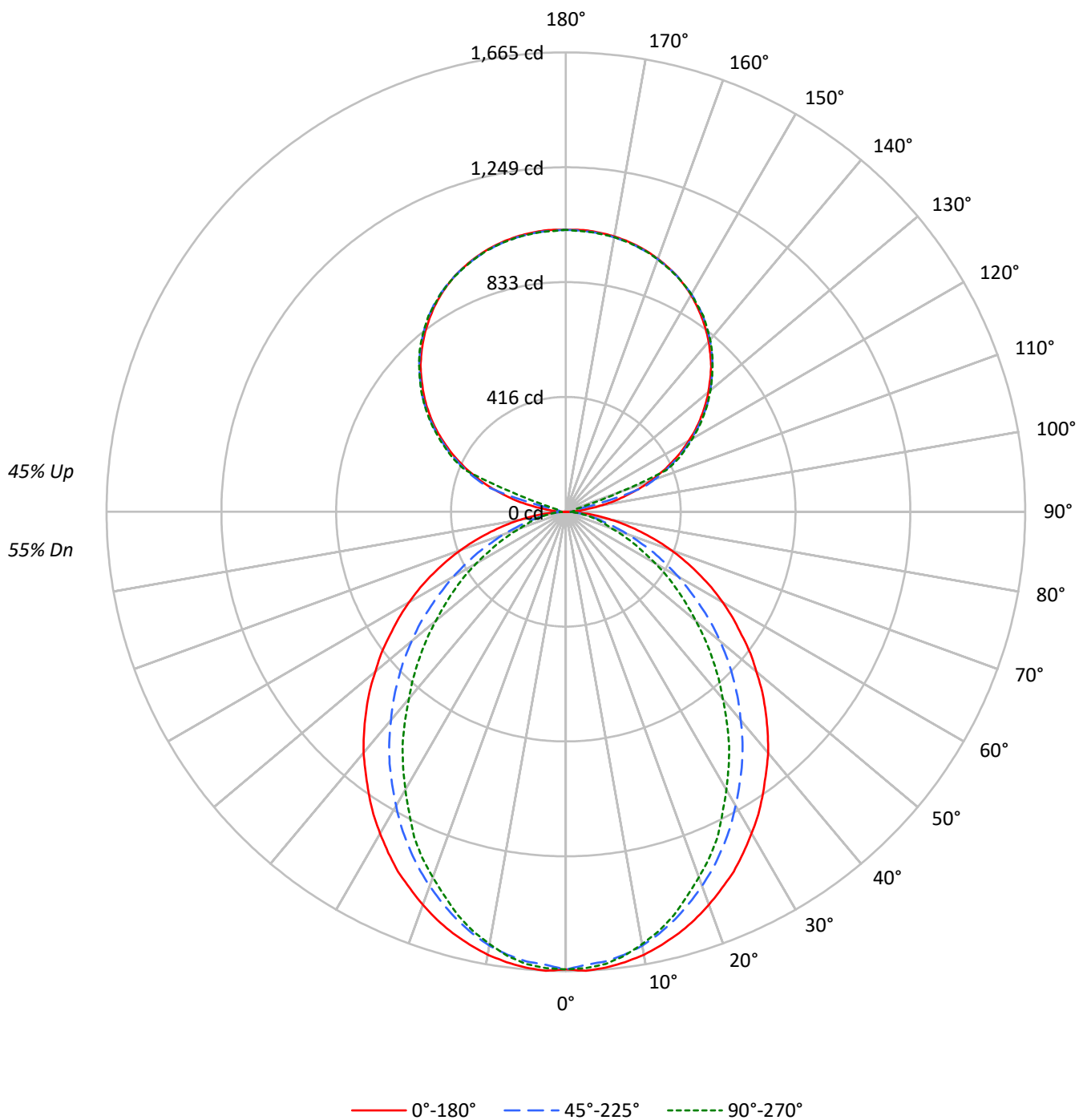
Lumens per Lamp: N/A
Luminaire Lumens: 6864.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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	73	73	73	60	60	60
1	99	95	91	88	92	88	85	82	76	74	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	55	51	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	48	42	38	41	37	33	35	32	29
6	64	53	45	39	60	49	42	37	43	37	33	37	33	29	32	28	26
7	60	48	40	34	55	45	38	32	39	33	29	34	29	26	29	26	23
8	55	43	36	30	52	41	34	29	36	30	26	31	27	23	27	23	21
9	52	40	32	27	48	37	31	26	33	27	23	29	24	21	25	21	19
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17853	17853	17853
5°	17882	17221	17174
10°	17741	16574	16247
15°	17511	15773	15231
20°	17209	14903	14096
25°	16897	13998	13021
30°	16498	13036	11749
35°	16086	12091	10591
40°	15699	11064	9311
45°	15203	10060	8161
50°	14655	8990	6971
55°	14088	7842	5880
60°	13544	6666	4773
65°	12843	5458	3725
70°	11962	4127	2663
75°	10693	2795	2109
80°	9126	1941	1479
85°	6849	1050	776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15203 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	2.3
10°-20°	433.7	6.3
20°-30°	624.5	9.1
30°-40°	703.3	10.2
40°-50°	672.7	9.8
50°-60°	550.7	8.0
60°-70°	371.3	5.4
70°-80°	186.2	2.7
80°-90°	50.7	0.7
90°-100°	36.0	0.5
100°-110°	174.2	2.5
110°-120°	426.9	6.2
120°-130°	541.9	7.9
130°-140°	578.9	8.4
140°-150°	541.4	7.9
150°-160°	436.7	6.4
160°-170°	281.8	4.1
170°-180°	97.1	1.4
0°-30°	1214.2	17.7
0°-40°	1917.4	27.9
0°-60°	3140.8	45.8
0°-90°	3749.0	54.6
90°-120°	637.1	9.3
90°-150°	2299.4	33.5
90°-180°	3115.0	45.4
0°-180°	6864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1659	1659	1659	1659	1659	
5°	1659	1652	1636	1648	1645	157
15°	1582	1567	1529	1523	1513	446
25°	1439	1406	1344	1316	1301	662
35°	1246	1197	1114	1056	1032	780
45°	1024	963	860	783	751	790
55°	778	712	597	519	492	697
65°	531	457	352	286	272	526
75°	281	217	143	129	126	300
85°	71	42	38	35	35	78
90°	1	8	18	21	23	7
95°	46	15	24	29	29	55
105°	226	235	166	32	33	240
115°	424	429	436	443	446	419
125°	598	604	607	609	610	534
135°	745	749	752	755	752	573
145°	859	865	866	868	868	538
155°	947	945	946	950	945	436
165°	998	996	995	1001	996	282
175°	1022	1018	1019	1024	1018	97
180°	1022	1022	1022	1022	1022	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1658.6	1658.6	1658.6	1658.6	1658.6
2.5°	1665.3	1659.9	1643.8	1658.6	1655.9
5°	1658.6	1651.8	1635.7	1647.8	1645.1
7.5°	1646.5	1639.7	1619.6	1627.6	1623.6
10°	1630.3	1620.9	1596.7	1598.0	1591.3
12.5°	1607.5	1596.7	1565.8	1564.4	1556.3
15°	1581.9	1567.1	1529.4	1522.7	1513.3
17.5°	1551.0	1534.8	1487.7	1474.3	1460.8
20°	1516.0	1494.5	1443.3	1425.9	1409.7
22.5°	1477.0	1451.4	1396.3	1373.4	1358.6
25°	1439.3	1405.7	1343.8	1315.6	1300.8
27.5°	1393.6	1357.3	1290.0	1252.3	1229.5
30°	1346.5	1306.1	1230.8	1185.1	1163.6
32.5°	1299.4	1252.3	1171.6	1120.5	1097.6
35°	1245.6	1197.2	1113.8	1055.9	1031.7
37.5°	1191.8	1139.3	1051.9	987.3	957.7
40°	1140.7	1081.5	986.0	916.0	885.1
42.5°	1082.8	1023.7	924.1	846.1	819.2
45°	1023.7	963.1	859.5	782.9	750.6
47.5°	965.8	898.6	796.3	712.9	684.7
50°	901.2	838.0	729.1	645.7	614.7
52.5°	843.4	773.5	665.8	578.4	551.5
55°	777.5	711.6	597.2	519.2	492.3
57.5°	718.3	647.0	531.3	457.4	434.5
60°	656.4	582.4	470.8	398.2	375.3
62.5°	594.6	520.6	408.9	341.7	317.5
65°	531.3	457.4	352.4	286.5	271.7
67.5°	468.1	392.8	290.6	240.8	224.6
70°	406.2	333.6	239.4	192.4	177.6
72.5°	344.4	273.1	189.7	153.3	149.3
75°	281.1	216.6	142.6	129.1	126.4
77.5°	223.3	164.1	111.6	103.6	100.9
80°	168.1	113.0	84.7	80.7	78.0
82.5°	115.7	69.9	60.5	56.5	56.5
85°	71.3	41.7	37.7	35.0	35.0
87.5°	32.3	17.5	17.5	16.1	14.8
90°	0.8	8.4	18.2	21.3	22.8
92.5°	17.5	12.9	19.7	25.1	25.8
95°	46.3	15.2	23.5	28.8	28.8
97.5°	84.3	63.0	24.3	30.4	31.1
100°	128.3	143.5	25.1	31.1	31.9
102.5°	178.4	188.3	56.2	31.1	32.6
105°	226.2	234.6	166.2	31.9	33.4
107.5°	277.1	283.9	295.3	178.4	78.9
110°	327.9	334.0	342.4	317.3	208.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.5	381.8	390.2	397.0	395.5
115°	424.3	428.9	435.7	443.3	446.4
117.5°	471.4	476.7	480.5	486.6	487.4
120°	514.7	521.5	523.8	529.9	529.9
122.5°	558.7	564.0	567.1	570.9	571.6
125°	598.2	604.3	607.3	608.8	610.3
127.5°	637.7	643.7	647.5	649.8	648.3
130°	674.1	680.2	683.2	686.2	684.7
132.5°	709.0	715.1	717.4	720.4	718.1
135°	744.7	749.2	752.3	754.6	752.3
137.5°	775.1	781.1	782.7	786.4	784.9
140°	805.4	810.0	812.3	815.3	813.8
142.5°	833.5	838.1	840.3	842.6	840.3
145°	859.3	864.6	866.2	867.7	867.7
147.5°	884.4	888.2	889.7	891.2	887.4
150°	907.1	909.4	910.9	912.5	910.2
152.5°	927.6	928.4	929.2	932.2	928.4
155°	946.6	945.1	945.9	949.7	945.1
157.5°	961.8	961.8	961.0	965.6	959.5
160°	975.5	974.7	973.9	978.5	973.2
162.5°	988.4	986.1	985.3	990.6	986.1
165°	998.2	996.0	995.2	1001.3	996.0
167.5°	1006.6	1003.6	1003.6	1009.6	1003.6
170°	1013.4	1010.4	1010.4	1016.5	1010.4
172.5°	1018.0	1014.2	1014.9	1021.0	1014.2
175°	1021.8	1018.0	1018.7	1024.0	1018.0
177.5°	1023.3	1019.5	1020.3	1026.3	1018.7
180°	1021.8	1021.8	1021.8	1021.8	1021.8

(END OF REPORT)