

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: P1012135

Luminaire Tested: S123RDIP-B1000D1025UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012135
REPORT IS A COMBINATION OF REPORTS P992750 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D1025UB40-4F0-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

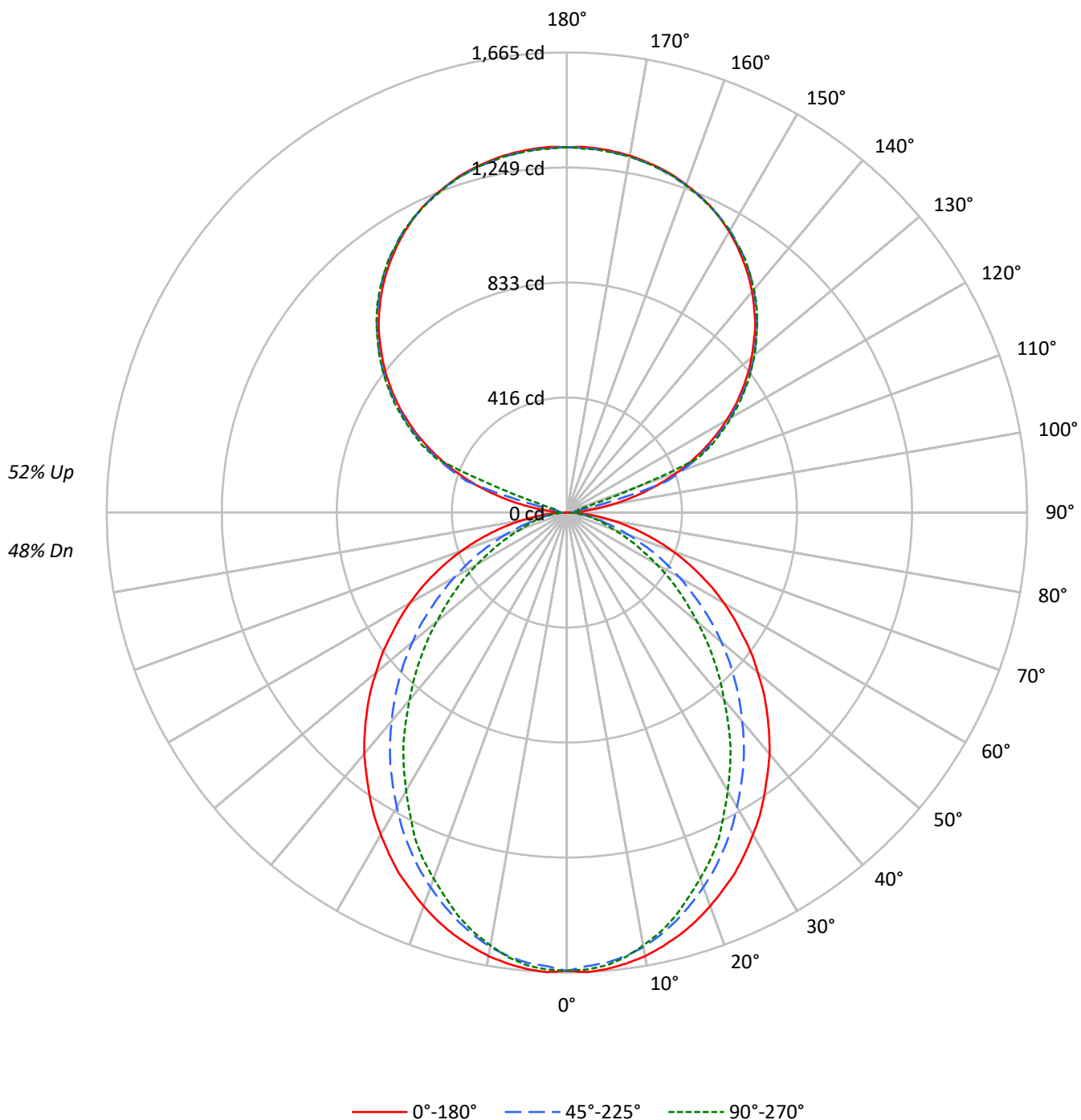
Lumens per Lamp: N/A
Luminaire Lumens: 7781.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	41	40
3	82	72	65	60	75	67	61	56	57	52	48	47	44	41	39	36	34
4	75	64	56	51	69	59	53	47	51	45	41	42	38	35	35	32	30
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26
6	63	51	44	38	58	48	41	36	41	35	31	35	30	27	28	25	23
7	59	47	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17
10	47	36	28	24	44	33	27	22	29	24	20	25	21	18	21	18	15

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	2.0
10°-20°	433.7	5.6
20°-30°	624.5	8.0
30°-40°	703.3	9.0
40°-50°	672.7	8.6
50°-60°	550.7	7.1
60°-70°	371.3	4.8
70°-80°	186.2	2.4
80°-90°	51.3	0.7
90°-100°	46.6	0.6
100°-110°	225.5	2.9
110°-120°	552.5	7.1
120°-130°	701.4	9.0
130°-140°	749.3	9.6
140°-150°	700.6	9.0
150°-160°	565.1	7.3
160°-170°	364.7	4.7
170°-180°	125.7	1.6
0°-30°	1214.2	15.6
0°-40°	1917.4	24.6
0°-60°	3140.8	40.4
0°-90°	3749.6	48.2
90°-120°	824.6	10.6
90°-150°	2975.8	38.2
90°-180°	4031.0	51.8
0°-180°	7781.0	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	11	24	28	30	8
95°	60	20	30	37	37	72
105°	293	304	215	41	43	310
115°	549	555	564	574	578	542
125°	774	782	786	788	790	692
135°	964	970	974	977	974	742
145°	1112	1119	1121	1123	1123	696
155°	1225	1223	1224	1229	1223	564
165°	1292	1289	1288	1296	1289	365
175°	1322	1318	1318	1325	1318	126
180°	1322	1322	1322	1322	1322	

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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°	1.0	10.8	23.6	27.5	29.5
92.5°	22.6	16.7	25.5	32.4	33.4
95°	59.9	19.6	30.5	37.3	37.3
97.5°	109.1	81.5	31.4	39.3	40.3
100°	166.0	185.7	32.4	40.3	41.3
102.5°	230.9	243.6	72.7	40.3	42.2
105°	292.8	303.6	215.2	41.3	43.2
107.5°	358.6	367.4	382.2	230.9	102.2
110°	424.4	432.3	443.1	410.7	270.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	487.3	494.2	505.0	513.8	511.9
115°	549.2	555.1	563.9	573.7	577.7
117.5°	610.1	617.0	621.9	629.7	630.7
120°	666.1	674.9	677.9	685.7	685.7
122.5°	723.1	730.0	733.9	738.8	739.8
125°	774.2	782.0	786.0	787.9	789.9
127.5°	825.3	833.1	838.0	841.0	839.0
130°	872.4	880.3	884.2	888.1	886.2
132.5°	917.6	925.5	928.4	932.3	929.4
135°	963.8	969.7	973.6	976.6	973.6
137.5°	1003.1	1010.9	1012.9	1017.8	1015.8
140°	1042.4	1048.3	1051.2	1055.1	1053.2
142.5°	1078.7	1084.6	1087.6	1090.5	1087.6
145°	1112.1	1119.0	1121.0	1122.9	1122.9
147.5°	1144.5	1149.5	1151.4	1153.4	1148.5
150°	1174.0	1177.0	1178.9	1180.9	1178.0
152.5°	1200.5	1201.5	1202.5	1206.4	1201.5
155°	1225.1	1223.1	1224.1	1229.0	1223.1
157.5°	1244.8	1244.8	1243.8	1249.7	1241.8
160°	1262.4	1261.5	1260.5	1266.4	1259.5
162.5°	1279.1	1276.2	1275.2	1282.1	1276.2
165°	1291.9	1289.0	1288.0	1295.8	1289.0
167.5°	1302.7	1298.8	1298.8	1306.7	1298.8
170°	1311.6	1307.6	1307.6	1315.5	1307.6
172.5°	1317.5	1312.5	1313.5	1321.4	1312.5
175°	1322.4	1317.5	1318.4	1325.3	1317.5
177.5°	1324.3	1319.4	1320.4	1328.3	1318.4
180°	1322.4	1322.4	1322.4	1322.4	1322.4

(END OF REPORT)