

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: P1012130

Luminaire Tested: S123RDIP-B1000D1025UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012130
REPORT IS A COMBINATION OF REPORTS P992745 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D1025UB35-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

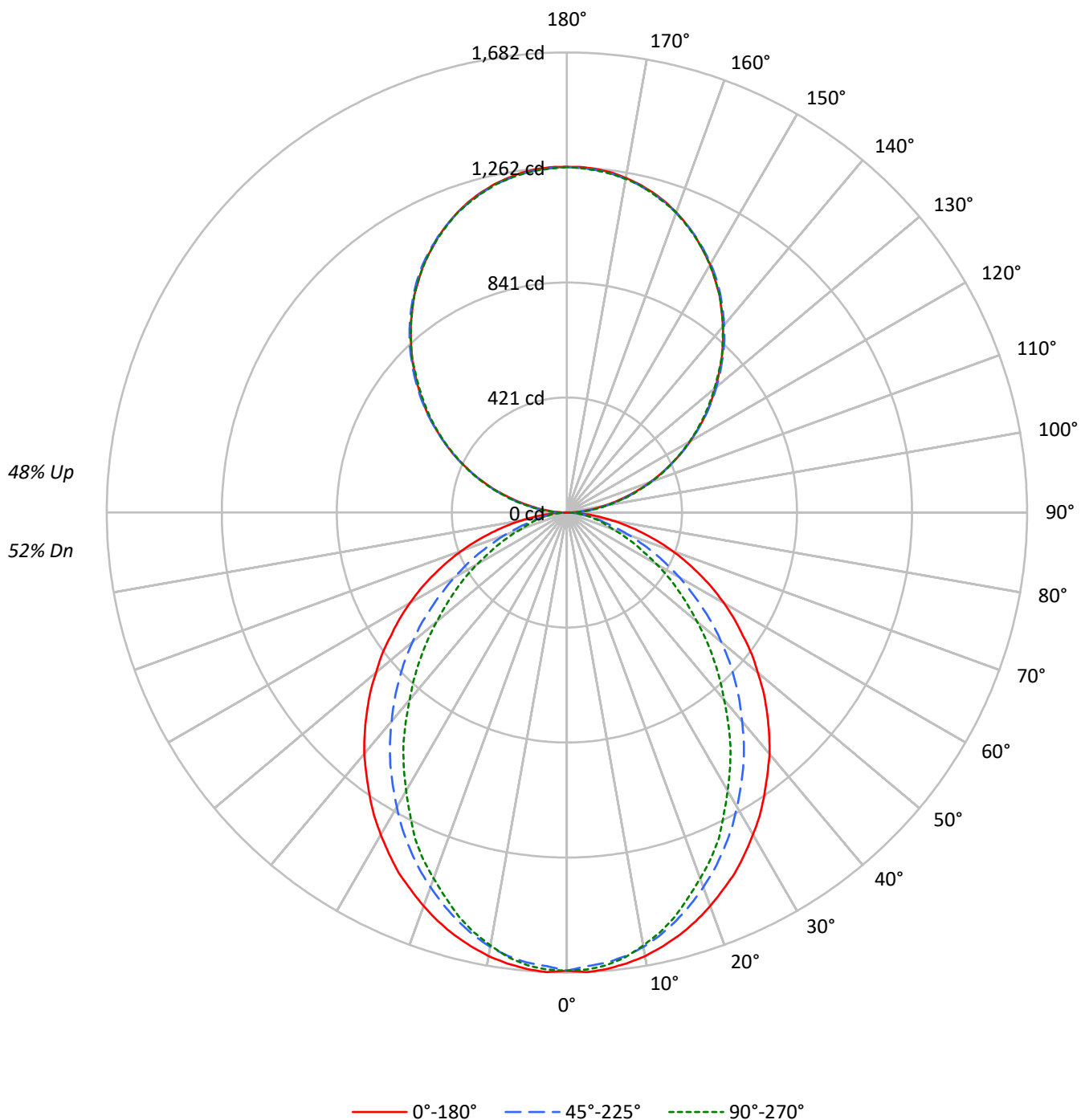
Lumens per Lamp: N/A
Luminaire Lumens: 7288.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58
1	99	94	91	87	91	87	84	81	75	72	70	63	61	60	52	51	50
2	90	83	77	72	83	77	72	67	66	62	59	55	53	50	46	44	42
3	82	73	66	60	76	68	62	57	58	54	50	49	46	43	41	38	36
4	75	65	57	51	70	60	54	48	52	47	43	44	40	37	37	34	32
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	33	30	28
6	64	52	44	38	59	49	42	36	42	37	32	36	32	28	30	27	25
7	59	47	39	34	55	44	37	32	38	33	29	33	28	25	28	24	22
8	55	43	35	30	51	40	33	28	35	29	26	30	26	23	26	22	20
9	51	39	32	27	48	37	30	25	32	27	23	28	23	20	24	20	18
10	48	36	29	24	44	34	27	23	30	24	21	26	21	19	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18034	18034	18034
5°	18063	17396	17349
10°	17922	16742	16411
15°	17688	15933	15385
20°	17384	15054	14239
25°	17069	14140	13153
30°	16664	13168	11868
35°	16249	12214	10698
40°	15859	11177	9406
45°	15356	10163	8244
50°	14804	9081	7042
55°	14231	7922	5939
60°	13683	6734	4821
65°	12974	5514	3763
70°	12086	4170	2690
75°	10803	2823	2130
80°	9218	1962	1494
85°	6916	1058	782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15356 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	2.2
10°-20°	438.1	6.0
20°-30°	630.8	8.7
30°-40°	710.4	9.7
40°-50°	679.5	9.3
50°-60°	556.3	7.6
60°-70°	375.0	5.1
70°-80°	188.1	2.6
80°-90°	51.8	0.7
90°-100°	81.3	1.1
100°-110°	246.1	3.4
110°-120°	419.0	5.7
120°-130°	551.2	7.6
130°-140°	619.6	8.5
140°-150°	609.2	8.4
150°-160°	512.8	7.0
160°-170°	341.4	4.7
170°-180°	119.6	1.6
0°-30°	1226.5	16.8
0°-40°	1936.9	26.6
0°-60°	3172.7	43.5
0°-90°	3787.7	52.0
90°-120°	746.5	10.2
90°-150°	2526.5	34.7
90°-180°	3500.0	48.0
0°-180°	7288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1675	1669	1652	1664	1662	159
15°	1598	1583	1545	1538	1529	450
25°	1454	1420	1357	1329	1314	669
35°	1258	1209	1125	1067	1042	788
45°	1034	973	868	791	758	798
55°	785	719	603	524	497	704
65°	537	462	356	289	274	531
75°	284	219	144	130	128	303
85°	72	42	38	35	35	79
90°	1	11	24	28	30	9
95°	58	66	73	77	77	65
105°	223	225	234	234	236	239
115°	422	425	423	424	423	417
125°	617	620	618	614	610	550
135°	801	807	806	802	800	617
145°	972	974	976	976	972	607
155°	1112	1112	1113	1117	1110	512
165°	1212	1209	1209	1215	1208	342
175°	1260	1256	1256	1262	1255	120
180°	1263	1263	1263	1263	1263	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.4	1675.4	1675.4	1675.4	1675.4
2.5°	1682.2	1676.7	1660.4	1675.4	1672.7
5°	1675.4	1668.6	1652.3	1664.5	1661.8
7.5°	1663.2	1656.4	1636.0	1644.1	1640.1
10°	1646.9	1637.3	1612.9	1614.2	1607.4
12.5°	1623.8	1612.9	1581.6	1580.3	1572.1
15°	1597.9	1583.0	1544.9	1538.2	1528.6
17.5°	1566.7	1550.4	1502.8	1489.2	1475.6
20°	1531.4	1509.6	1458.0	1440.3	1424.0
22.5°	1492.0	1466.1	1410.4	1387.3	1372.4
25°	1453.9	1419.9	1357.4	1328.9	1314.0
27.5°	1407.7	1371.0	1303.1	1265.0	1241.9
30°	1360.1	1319.4	1243.3	1197.1	1175.4
32.5°	1312.6	1265.0	1183.5	1131.9	1108.8
35°	1258.2	1209.3	1125.1	1066.7	1042.2
37.5°	1203.9	1150.9	1062.6	997.4	967.5
40°	1152.3	1092.5	996.0	925.3	894.1
42.5°	1093.8	1034.0	933.5	854.7	827.5
45°	1034.0	972.9	868.3	790.8	758.2
47.5°	975.6	907.7	804.4	720.2	691.6
50°	910.4	846.5	736.5	652.2	621.0
52.5°	852.0	781.3	672.6	584.3	557.1
55°	785.4	718.8	603.3	524.5	497.3
57.5°	725.6	653.6	536.7	462.0	438.9
60°	663.1	588.4	475.6	402.2	379.1
62.5°	600.6	525.9	413.1	345.1	320.7
65°	536.7	462.0	356.0	289.4	274.5
67.5°	472.9	396.8	293.5	243.2	226.9
70°	410.4	337.0	241.9	194.3	179.4
72.5°	347.9	275.8	191.6	154.9	150.8
75°	284.0	218.8	144.0	130.4	127.7
77.5°	225.6	165.8	112.8	104.6	101.9
80°	169.8	114.1	85.6	81.5	78.8
82.5°	116.9	70.7	61.1	57.1	57.1
85°	72.0	42.1	38.0	35.3	35.3
87.5°	32.6	17.7	17.7	16.3	14.9
90°	1.0	10.9	23.8	27.8	29.8
92.5°	29.8	35.7	41.7	44.7	42.7
95°	58.5	65.5	73.4	77.4	77.4
97.5°	96.3	101.2	107.2	112.1	111.1
100°	135.0	140.9	145.9	148.9	150.8
102.5°	179.6	182.6	189.5	192.5	191.5
105°	223.3	225.3	234.2	234.2	236.2
107.5°	274.9	275.9	279.8	282.8	281.8
110°	322.5	324.5	326.5	330.5	328.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	372.1	373.1	373.1	378.1	378.1
115°	421.8	424.7	422.7	423.7	422.7
117.5°	472.4	473.4	471.4	471.4	468.4
120°	519.0	525.0	520.0	519.0	517.0
122.5°	567.6	571.6	569.6	566.6	563.7
125°	617.3	620.2	618.2	614.3	610.3
127.5°	662.9	668.9	666.9	660.9	656.9
130°	708.6	716.5	713.5	709.5	702.6
132.5°	754.2	762.1	760.2	755.2	750.2
135°	800.8	806.8	805.8	801.8	799.8
137.5°	843.5	848.5	851.5	846.5	843.5
140°	888.2	893.1	894.1	893.1	886.2
142.5°	928.9	933.8	935.8	934.8	929.8
145°	971.5	973.5	976.5	975.5	971.5
147.5°	1008.2	1012.2	1015.2	1015.2	1009.2
150°	1046.9	1048.9	1050.9	1050.9	1045.0
152.5°	1078.7	1081.7	1082.7	1084.7	1079.7
155°	1112.4	1112.4	1113.4	1117.4	1110.5
157.5°	1141.2	1140.2	1141.2	1145.2	1139.2
160°	1168.0	1166.0	1166.0	1171.0	1167.0
162.5°	1191.8	1188.9	1189.8	1194.8	1187.9
165°	1211.7	1208.7	1208.7	1214.7	1207.7
167.5°	1228.6	1224.6	1225.6	1231.5	1225.6
170°	1242.4	1238.5	1238.5	1245.4	1238.5
172.5°	1253.4	1249.4	1249.4	1255.3	1248.4
175°	1260.3	1256.3	1256.3	1262.3	1255.3
177.5°	1264.3	1260.3	1260.3	1266.3	1259.3
180°	1263.3	1263.3	1263.3	1263.3	1263.3

(END OF REPORT)