

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: P1012452

Luminaire Tested: S123RDIP-B340D1195UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012452
REPORT IS A COMBINATION OF REPORTS P993185 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D1195UB35-4F0-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

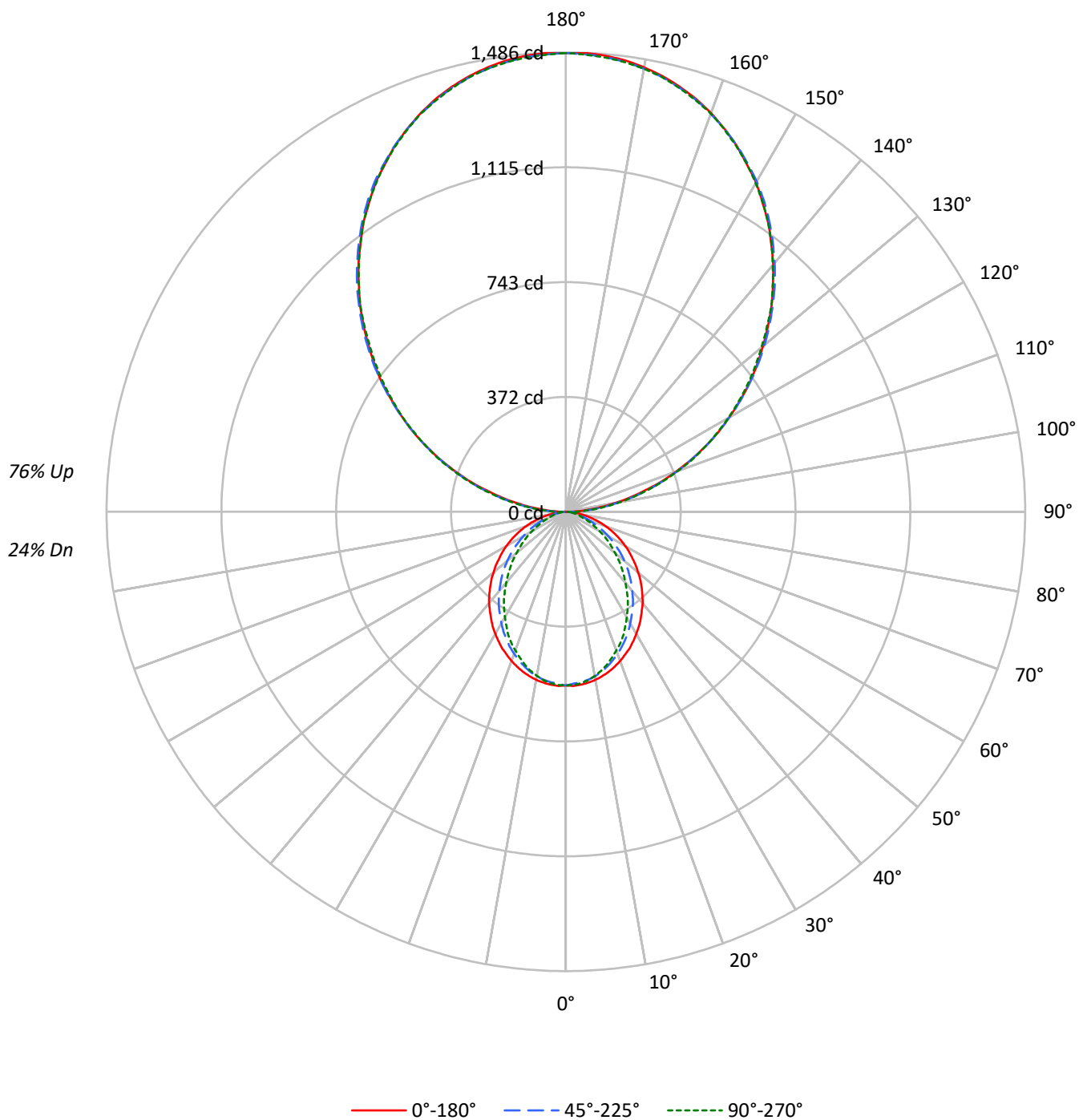
Lumens per Lamp: N/A
Luminaire Lumens: 5385.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32
1	92	88	84	81	82	78	75	73	60	58	56	44	42	41	28	28	27
2	84	77	71	66	74	69	64	60	53	50	47	38	36	35	25	24	23
3	77	68	61	55	68	60	55	50	47	43	40	34	32	29	22	21	20
4	70	60	52	47	62	53	47	42	42	37	34	30	28	25	20	18	17
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15
6	59	48	40	34	52	43	36	31	33	29	25	25	21	19	16	15	13
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	11
9	47	35	28	23	42	32	26	21	25	20	17	19	16	13	13	11	9
10	44	32	25	21	39	29	23	19	23	19	15	17	14	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6046	6046	6046
5°	6056	5833	5817
10°	6008	5613	5502
15°	5930	5342	5158
20°	5828	5047	4774
25°	5723	4741	4409
30°	5587	4415	3979
35°	5449	4095	3587
40°	5316	3747	3154
45°	5149	3407	2764
50°	4963	3044	2361
55°	4771	2656	1991
60°	4587	2257	1616
65°	4349	1849	1261
70°	4052	1398	901
75°	3621	947	714
80°	3089	658	501
85°	2315	356	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5149 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.0
10°-20°	146.9	2.7
20°-30°	211.5	3.9
30°-40°	238.2	4.4
40°-50°	227.8	4.2
50°-60°	186.5	3.5
60°-70°	125.7	2.3
70°-80°	63.1	1.2
80°-90°	19.6	0.4
90°-100°	95.6	1.8
100°-110°	289.2	5.4
110°-120°	492.4	9.1
120°-130°	647.7	12.0
130°-140°	728.0	13.5
140°-150°	715.8	13.3
150°-160°	602.6	11.2
160°-170°	401.2	7.4
170°-180°	140.5	2.6
0°-30°	411.2	7.6
0°-40°	649.4	12.1
0°-60°	1063.7	19.8
0°-90°	1272.1	23.6
90°-120°	877.1	16.3
90°-150°	2968.6	55.1
90°-180°	4113.0	76.4
0°-180°	5385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	562	562	562	562	562	
5°	562	559	554	558	557	53
15°	536	531	518	516	512	151
25°	488	476	455	446	440	224
35°	422	406	377	358	349	264
45°	347	326	291	265	254	268
55°	263	241	202	176	167	236
65°	180	155	119	97	92	178
75°	95	73	48	44	43	101
85°	24	14	13	12	12	26
90°	1	13	28	33	35	7
95°	69	77	86	91	91	76
105°	262	265	275	275	278	281
115°	496	499	497	498	497	490
125°	725	729	726	722	717	647
135°	941	948	947	942	940	725
145°	1142	1144	1147	1146	1142	713
155°	1307	1307	1308	1313	1305	602
165°	1424	1420	1420	1427	1419	402
175°	1481	1476	1476	1483	1475	141
180°	1484	1484	1484	1484	1484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	561.7	561.7	561.7	561.7	561.7
2.5°	564.0	562.2	556.7	561.7	560.8
5°	561.7	559.4	554.0	558.1	557.2
7.5°	557.6	555.3	548.5	551.2	549.9
10°	552.1	549.0	540.8	541.2	538.9
12.5°	544.4	540.8	530.3	529.8	527.1
15°	535.7	530.7	518.0	515.7	512.5
17.5°	525.3	519.8	503.9	499.3	494.7
20°	513.4	506.1	488.8	482.9	477.4
22.5°	500.2	491.6	472.9	465.1	460.1
25°	487.5	476.1	455.1	445.5	440.5
27.5°	472.0	459.7	436.9	424.1	416.4
30°	456.0	442.4	416.8	401.4	394.1
32.5°	440.1	424.1	396.8	379.5	371.7
35°	421.9	405.5	377.2	357.6	349.4
37.5°	403.6	385.9	356.3	334.4	324.4
40°	386.3	366.3	333.9	310.2	299.8
42.5°	366.7	346.7	313.0	286.5	277.4
45°	346.7	326.2	291.1	265.1	254.2
47.5°	327.1	304.3	269.7	241.4	231.9
50°	305.2	283.8	246.9	218.7	208.2
52.5°	285.6	261.9	225.5	195.9	186.8
55°	263.3	241.0	202.3	175.8	166.7
57.5°	243.3	219.1	179.9	154.9	147.1
60°	222.3	197.3	159.4	134.8	127.1
62.5°	201.4	176.3	138.5	115.7	107.5
65°	179.9	154.9	119.4	97.0	92.0
67.5°	158.5	133.0	98.4	81.5	76.1
70°	137.6	113.0	81.1	65.1	60.1
72.5°	116.6	92.5	64.2	51.9	50.6
75°	95.2	73.3	48.3	43.7	42.8
77.5°	75.6	55.6	37.8	35.1	34.2
80°	56.9	38.3	28.7	27.3	26.4
82.5°	39.2	23.7	20.5	19.1	19.1
85°	24.1	14.1	12.8	11.8	11.8
87.5°	10.9	5.9	5.9	5.5	5.0
90°	1.2	12.8	28.0	32.6	35.0
92.5°	35.0	42.0	49.0	52.5	50.1
95°	68.8	77.0	86.3	90.9	90.9
97.5°	113.1	118.9	125.9	131.8	130.6
100°	158.6	165.6	171.4	174.9	177.2
102.5°	211.1	214.5	222.7	226.2	225.0
105°	262.4	264.7	275.2	275.2	277.5
107.5°	323.0	324.2	328.8	332.3	331.2
110°	379.0	381.3	383.6	388.3	386.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	437.3	438.4	438.4	444.3	444.3
115°	495.6	499.1	496.7	497.9	496.7
117.5°	555.0	556.2	553.9	553.9	550.4
120°	609.8	616.8	611.0	609.8	607.5
122.5°	667.0	671.6	669.3	665.8	662.3
125°	725.3	728.8	726.4	721.8	717.1
127.5°	778.9	785.9	783.6	776.6	771.9
130°	832.5	841.9	838.4	833.7	825.5
132.5°	886.2	895.5	893.2	887.3	881.5
135°	941.0	948.0	946.8	942.1	939.8
137.5°	991.1	997.0	1000.4	994.6	991.1
140°	1043.6	1049.4	1050.6	1049.4	1041.3
142.5°	1091.4	1097.2	1099.6	1098.4	1092.6
145°	1141.5	1143.9	1147.4	1146.2	1141.5
147.5°	1184.7	1189.3	1192.8	1192.8	1185.8
150°	1230.2	1232.5	1234.8	1234.8	1227.8
152.5°	1267.5	1271.0	1272.1	1274.5	1268.6
155°	1307.1	1307.1	1308.3	1312.9	1304.8
157.5°	1340.9	1339.8	1340.9	1345.6	1338.6
160°	1372.4	1370.1	1370.1	1375.9	1371.2
162.5°	1400.4	1396.9	1398.1	1403.9	1395.7
165°	1423.7	1420.2	1420.2	1427.2	1419.1
167.5°	1443.5	1438.9	1440.0	1447.0	1440.0
170°	1459.9	1455.2	1455.2	1463.4	1455.2
172.5°	1472.7	1468.0	1468.0	1475.0	1466.9
175°	1480.9	1476.2	1476.2	1483.2	1475.0
177.5°	1485.5	1480.9	1480.9	1487.8	1479.7
180°	1484.3	1484.3	1484.3	1484.3	1484.3

(END OF REPORT)