

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: P1012610

Luminaire Tested: S123RDIP-B560D1195UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012610
REPORT IS A COMBINATION OF REPORTS P993397 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D1195UB50-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

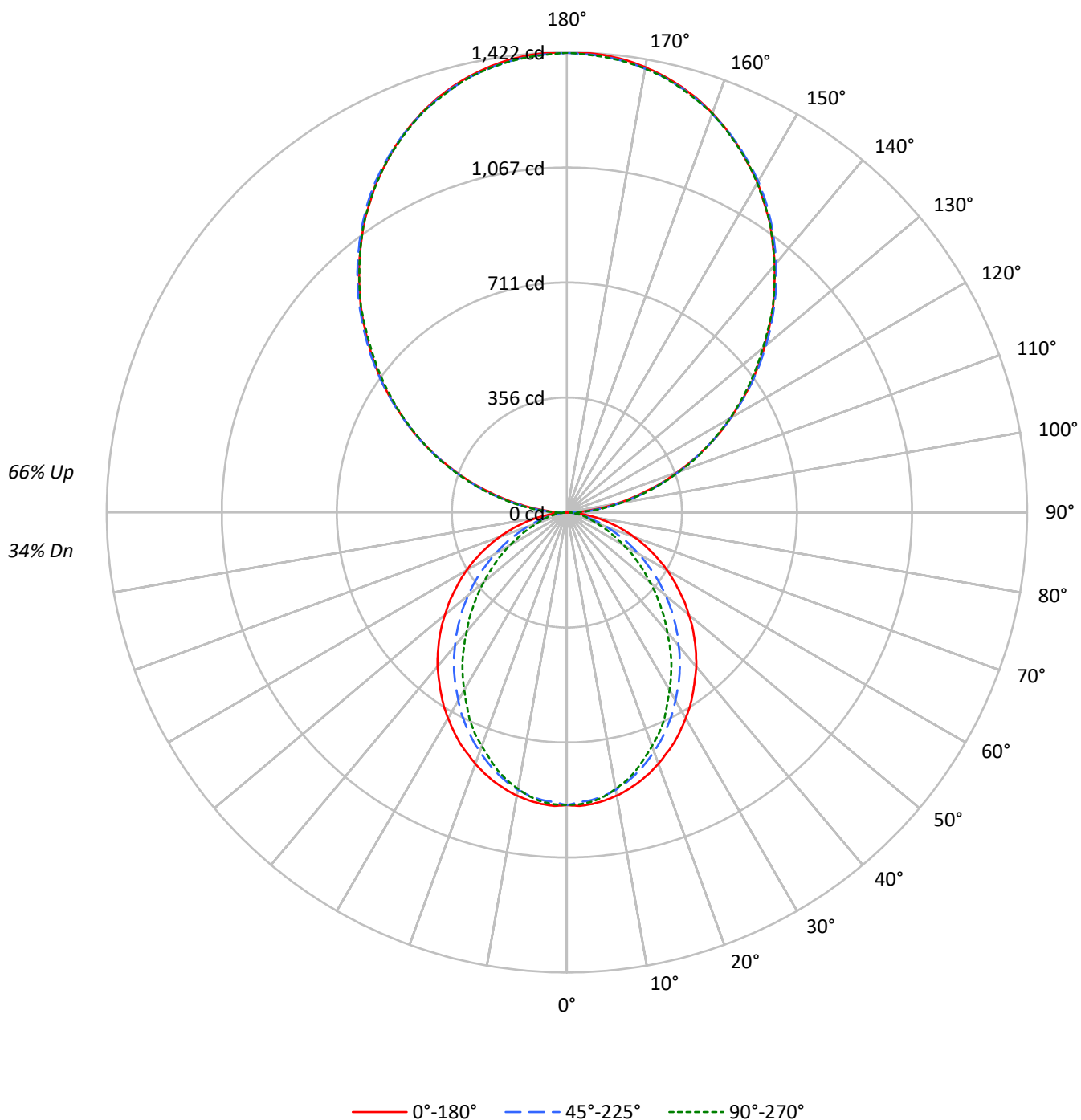
Lumens per Lamp: N/A
Luminaire Lumens: 5984.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42
1	94	90	87	83	85	82	79	76	66	63	62	51	49	48	37	36	36
2	86	79	73	68	78	72	67	62	58	54	51	45	43	40	33	31	30
3	79	70	63	57	71	63	57	52	51	47	43	40	37	34	29	28	26
4	72	62	54	48	65	56	50	44	45	41	37	36	32	30	26	24	23
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	22	20
6	61	49	41	36	55	45	38	33	37	32	28	29	25	23	22	19	17
7	56	44	37	31	51	41	34	29	33	28	24	26	23	20	20	17	16
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	16	14
9	48	37	29	25	44	34	27	23	28	23	19	22	19	16	17	14	13
10	45	34	27	22	41	31	25	20	25	21	17	20	17	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9734	9734	9734
5°	9750	9389	9364
10°	9673	9037	8858
15°	9547	8600	8305
20°	9383	8126	7685
25°	9213	7632	7099
30°	8996	7108	6406
35°	8771	6593	5774
40°	8559	6033	5077
45°	8288	5486	4450
50°	7991	4901	3801
55°	7681	4275	3206
60°	7385	3634	2602
65°	7003	2977	2032
70°	6523	2250	1451
75°	5831	1523	1149
80°	4978	1059	806
85°	3737	571	423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8288 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	1.4
10°-20°	236.5	4.0
20°-30°	340.5	5.7
30°-40°	383.4	6.4
40°-50°	366.8	6.1
50°-60°	300.2	5.0
60°-70°	202.4	3.4
70°-80°	101.5	1.7
80°-90°	29.5	0.5
90°-100°	91.5	1.5
100°-110°	276.9	4.6
110°-120°	471.4	7.9
120°-130°	620.2	10.4
130°-140°	697.1	11.6
140°-150°	685.3	11.5
150°-160°	577.0	9.6
160°-170°	384.1	6.4
170°-180°	134.5	2.2
0°-30°	662.0	11.1
0°-40°	1045.4	17.5
0°-60°	1712.5	28.6
0°-90°	2046.0	34.2
90°-120°	839.8	14.0
90°-150°	2842.4	47.5
90°-180°	3938.0	65.8
0°-180°	5984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	904	901	892	898	897	86
15°	862	854	834	830	825	243
25°	785	766	733	717	709	361
35°	679	653	607	576	562	425
45°	558	525	469	427	409	431
55°	424	388	326	283	268	380
65°	290	249	192	156	148	287
75°	153	118	78	70	69	163
85°	39	23	20	19	19	43
90°	1	12	27	31	34	7
95°	66	74	83	87	87	73
105°	251	253	264	264	266	269
115°	474	478	476	477	476	470
125°	694	698	696	691	687	619
135°	901	908	907	902	900	694
145°	1093	1095	1099	1098	1093	683
155°	1252	1252	1253	1257	1249	576
165°	1363	1360	1360	1366	1359	384
175°	1418	1413	1413	1420	1412	135
180°	1421	1421	1421	1421	1421	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.3	904.3	904.3	904.3	904.3
2.5°	908.0	905.0	896.2	904.3	902.8
5°	904.3	900.6	891.8	898.4	897.0
7.5°	897.7	894.0	883.0	887.4	885.2
10°	888.9	883.8	870.6	871.3	867.6
12.5°	876.4	870.6	853.7	853.0	848.6
15°	862.5	854.4	833.9	830.2	825.1
17.5°	845.6	836.8	811.2	803.8	796.5
20°	826.6	814.8	787.0	777.4	768.6
22.5°	805.3	791.4	761.3	748.8	740.8
25°	784.8	766.4	732.7	717.3	709.2
27.5°	759.8	740.0	703.4	682.8	670.3
30°	734.2	712.2	671.1	646.1	634.4
32.5°	708.5	682.8	638.8	610.9	598.5
35°	679.2	652.7	607.3	575.7	562.5
37.5°	649.8	621.2	573.5	538.3	522.2
40°	621.9	589.7	537.6	499.5	482.6
42.5°	590.4	558.1	503.9	461.3	446.7
45°	558.1	525.1	468.7	426.9	409.3
47.5°	526.6	489.9	434.2	388.7	373.3
50°	491.4	456.9	397.5	352.0	335.2
52.5°	459.9	421.7	363.0	315.4	300.7
55°	423.9	388.0	325.6	283.1	268.4
57.5°	391.6	352.8	289.7	249.4	236.9
60°	357.9	317.6	256.7	217.1	204.6
62.5°	324.2	283.8	223.0	186.3	173.1
65°	289.7	249.4	192.2	156.2	148.2
67.5°	255.2	214.2	158.4	131.3	122.5
70°	221.5	181.9	130.5	104.9	96.8
72.5°	187.8	148.9	103.4	83.6	81.4
75°	153.3	118.1	77.7	70.4	68.9
77.5°	121.7	89.5	60.9	56.5	55.0
80°	91.7	61.6	46.2	44.0	42.5
82.5°	63.1	38.1	33.0	30.8	30.8
85°	38.9	22.7	20.5	19.1	19.1
87.5°	17.6	9.5	9.5	8.8	8.1
90°	1.1	12.3	26.8	31.3	33.5
92.5°	33.5	40.2	46.9	50.2	48.0
95°	65.9	73.7	82.6	87.1	87.1
97.5°	108.3	113.9	120.6	126.2	125.0
100°	151.8	158.5	164.1	167.5	169.7
102.5°	202.1	205.4	213.2	216.6	215.5
105°	251.2	253.4	263.5	263.5	265.7
107.5°	309.3	310.4	314.8	318.2	317.1
110°	362.8	365.1	367.3	371.8	369.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.7	419.8	419.8	425.4	425.4
115°	474.5	477.8	475.6	476.7	475.6
117.5°	531.4	532.5	530.3	530.3	527.0
120°	583.9	590.6	585.0	583.9	581.7
122.5°	638.6	643.1	640.8	637.5	634.1
125°	694.4	697.8	695.5	691.1	686.6
127.5°	745.8	752.5	750.3	743.6	739.1
130°	797.1	806.1	802.7	798.3	790.4
132.5°	848.5	857.4	855.2	849.6	844.0
135°	901.0	907.7	906.6	902.1	899.9
137.5°	949.0	954.6	957.9	952.3	949.0
140°	999.2	1004.8	1005.9	1004.8	997.0
142.5°	1045.0	1050.6	1052.8	1051.7	1046.1
145°	1093.0	1095.2	1098.6	1097.5	1093.0
147.5°	1134.3	1138.8	1142.1	1142.1	1135.4
150°	1177.9	1180.1	1182.3	1182.3	1175.6
152.5°	1213.6	1216.9	1218.0	1220.3	1214.7
155°	1251.5	1251.5	1252.7	1257.1	1249.3
157.5°	1283.9	1282.8	1283.9	1288.4	1281.7
160°	1314.1	1311.8	1311.8	1317.4	1312.9
162.5°	1340.9	1337.5	1338.6	1344.2	1336.4
165°	1363.2	1359.8	1359.8	1366.5	1358.7
167.5°	1382.2	1377.7	1378.8	1385.5	1378.8
170°	1397.8	1393.3	1393.3	1401.1	1393.3
172.5°	1410.1	1405.6	1405.6	1412.3	1404.5
175°	1417.9	1413.4	1413.4	1420.1	1412.3
177.5°	1422.4	1417.9	1417.9	1424.6	1416.8
180°	1421.2	1421.2	1421.2	1421.2	1421.2

(END OF REPORT)