

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: P1011760

Luminaire Tested: S123DIP-B560D1195UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011760
REPORT IS A COMBINATION OF REPORTS P990033 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1195UB50-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

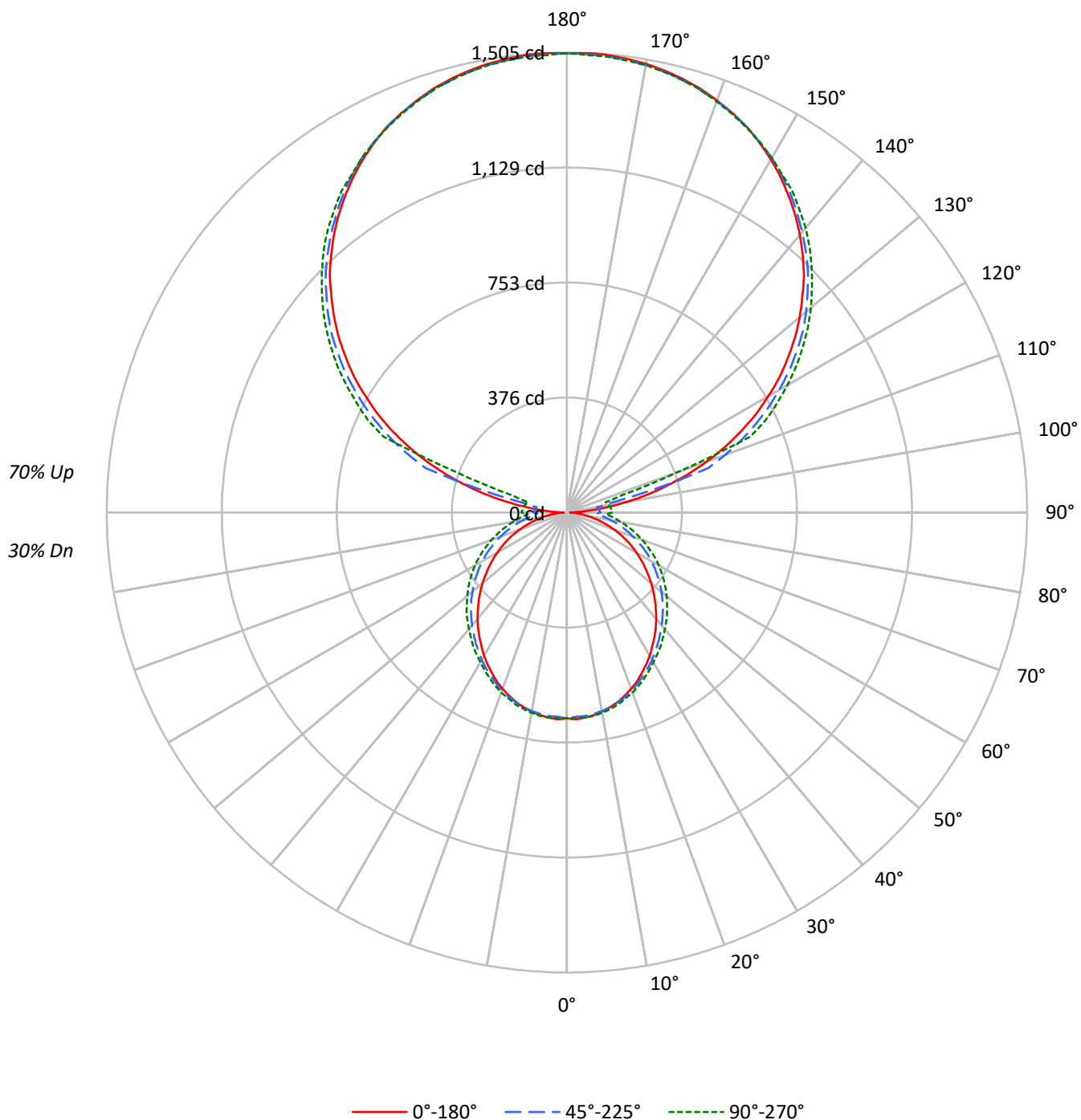
Lumens per Lamp: N/A
Luminaire Lumens: 6847.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	33	32	31
2	84	77	70	65	75	69	64	59	54	51	47	41	38	36	28	27	25
3	77	67	60	54	68	60	54	49	48	43	39	36	33	30	25	23	21
4	70	59	51	45	62	53	47	41	42	37	33	32	28	26	22	20	18
5	64	52	44	39	57	47	40	35	37	32	29	28	25	22	20	18	16
6	59	47	39	33	52	42	35	30	34	28	25	25	22	19	18	16	14
7	54	42	34	29	48	38	31	26	30	25	22	23	19	17	16	14	12
8	50	38	31	25	45	34	28	23	28	23	19	21	17	15	15	13	11
9	47	35	27	22	42	31	25	21	25	20	17	19	16	13	14	11	10
10	43	32	25	20	39	29	22	18	23	18	15	18	14	12	13	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7248	7248	7248
5°	7268	7035	7030
10°	7200	6845	6793
15°	7104	6634	6541
20°	6969	6400	6270
25°	6803	6136	5991
30°	6632	5896	5710
35°	6442	5646	5482
40°	6259	5416	5239
45°	6056	5195	5041
50°	5856	4974	4824
55°	5635	4748	4626
60°	5419	4518	4422
65°	5195	4272	4183
70°	4859	3996	3937
75°	4435	3681	3684
80°	3941	3363	3395
85°	3448	3105	3187

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6056 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	0.9
10°-20°	182.1	2.7
20°-30°	272.3	4.0
30°-40°	325.1	4.7
40°-50°	340.2	5.0
50°-60°	319.2	4.7
60°-70°	266.6	3.9
70°-80°	190.7	2.8
80°-90°	116.5	1.7
90°-100°	124.3	1.8
100°-110°	308.6	4.5
110°-120°	662.8	9.7
120°-130°	817.0	11.9
130°-140°	860.4	12.6
140°-150°	798.0	11.7
150°-160°	642.2	9.4
160°-170°	414.4	6.1
170°-180°	142.8	2.1
0°-30°	518.3	7.6
0°-40°	843.4	12.3
0°-60°	1502.8	21.9
0°-90°	2076.5	30.3
90°-120°	1095.7	16.0
90°-150°	3571.0	52.2
90°-180°	4770.0	69.7
0°-180°	6847.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	674	673	668	674	673	64
15°	642	644	643	651	650	181
25°	580	587	589	598	598	267
35°	499	510	520	531	534	312
45°	408	425	444	458	464	314
55°	311	335	362	381	387	278
65°	215	244	276	298	305	212
75°	117	151	188	212	221	125
85°	36	73	112	136	144	37
90°	11	58	110	139	149	11
95°	76	59	107	138	145	88
105°	339	368	300	122	131	359
115°	628	643	680	708	719	620
125°	882	891	917	934	942	788
135°	1097	1103	1115	1132	1132	844
145°	1264	1272	1274	1282	1285	791
155°	1392	1390	1391	1397	1390	641
165°	1468	1465	1464	1472	1465	415
175°	1503	1497	1498	1506	1497	143
180°	1503	1503	1503	1503	1503	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.4	673.4	673.4	673.4	673.4
2.5°	677.0	674.8	669.0	674.8	674.1
5°	674.1	672.6	668.2	674.1	673.4
7.5°	669.0	669.0	664.6	671.9	671.2
10°	661.6	663.1	659.4	666.8	665.3
12.5°	652.8	655.0	652.8	659.4	658.0
15°	641.8	644.0	643.3	650.6	649.9
17.5°	628.6	633.0	632.3	638.9	637.4
20°	613.9	618.3	619.8	626.4	627.1
22.5°	598.5	602.9	605.1	613.9	613.2
25°	579.5	586.8	589.0	598.5	598.5
27.5°	561.1	569.2	573.6	581.7	582.4
30°	541.3	550.9	556.7	565.5	565.5
32.5°	519.3	530.3	538.4	547.9	550.1
35°	498.8	510.5	520.1	531.1	534.0
37.5°	476.8	490.0	501.0	513.5	515.7
40°	454.8	468.0	482.6	495.1	498.0
42.5°	430.6	447.4	462.8	476.8	481.2
45°	407.8	425.4	443.8	457.7	463.6
47.5°	383.6	403.4	424.0	439.4	443.8
50°	360.1	380.7	403.4	420.3	425.4
52.5°	335.2	357.2	382.9	400.5	407.1
55°	311.0	335.2	361.6	381.4	387.3
57.5°	287.5	312.5	341.1	360.9	367.5
60°	262.6	289.0	319.1	339.6	347.7
62.5°	239.1	266.3	298.5	319.1	326.4
65°	214.9	243.5	275.8	297.8	305.1
67.5°	190.7	220.8	253.1	277.3	283.1
70°	165.0	196.6	231.8	255.3	262.6
72.5°	141.6	173.1	209.8	234.0	241.3
75°	116.6	151.1	187.8	212.0	220.8
77.5°	95.4	129.8	166.5	192.2	198.8
80°	72.6	108.6	146.7	171.6	179.0
82.5°	52.8	89.5	128.4	153.3	160.6
85°	35.9	72.6	111.5	136.4	143.8
87.5°	22.0	58.7	96.1	121.0	128.4
90°	10.6	57.8	109.7	139.1	148.7
92.5°	34.5	59.3	106.0	138.0	145.8
95°	76.2	59.0	107.2	137.8	145.1
97.5°	131.2	126.4	103.9	134.9	143.4
100°	195.3	241.1	100.6	130.9	139.3
102.5°	268.3	303.3	142.0	125.8	135.3
105°	338.6	368.5	299.5	122.5	131.3
107.5°	412.6	438.0	484.9	332.8	193.1
110°	486.7	508.8	550.4	532.7	378.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	558.1	576.2	616.3	644.8	649.1
115°	627.8	643.3	679.7	708.5	718.7
117.5°	697.0	710.6	741.2	767.7	774.6
120°	759.8	773.6	801.1	826.9	832.0
122.5°	824.6	833.9	861.0	882.8	889.0
125°	881.9	890.8	916.6	934.2	941.6
127.5°	940.0	948.2	972.1	990.1	993.0
130°	993.6	1001.8	1020.9	1039.3	1041.5
132.5°	1044.2	1053.1	1067.5	1085.2	1086.9
135°	1096.7	1102.6	1115.1	1131.7	1132.0
137.5°	1141.3	1149.5	1156.9	1174.2	1175.6
140°	1185.2	1191.9	1197.4	1212.9	1214.4
142.5°	1226.5	1232.5	1235.8	1248.7	1249.0
145°	1264.5	1271.6	1273.8	1281.9	1284.8
147.5°	1300.6	1306.2	1308.4	1312.8	1310.2
150°	1334.1	1337.4	1339.7	1341.9	1340.1
152.5°	1364.2	1365.3	1366.5	1370.9	1365.3
155°	1392.1	1389.9	1391.0	1396.6	1389.9
157.5°	1414.5	1414.5	1413.4	1420.1	1411.1
160°	1434.6	1433.4	1432.3	1439.0	1431.2
162.5°	1453.5	1450.2	1449.1	1456.9	1450.2
165°	1468.1	1464.7	1463.6	1472.5	1464.7
167.5°	1480.3	1475.9	1475.9	1484.8	1475.9
170°	1490.4	1485.9	1485.9	1494.8	1485.9
172.5°	1497.1	1491.5	1492.6	1501.5	1491.5
175°	1502.7	1497.1	1498.2	1506.0	1497.1
177.5°	1504.9	1499.3	1500.4	1509.4	1498.2
180°	1502.7	1502.7	1502.7	1502.7	1502.7

(END OF REPORT)