

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: P1011733

Luminaire Tested: S123DIP-B560D1195UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011733
REPORT IS A COMBINATION OF REPORTS P990006 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1195UB30-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

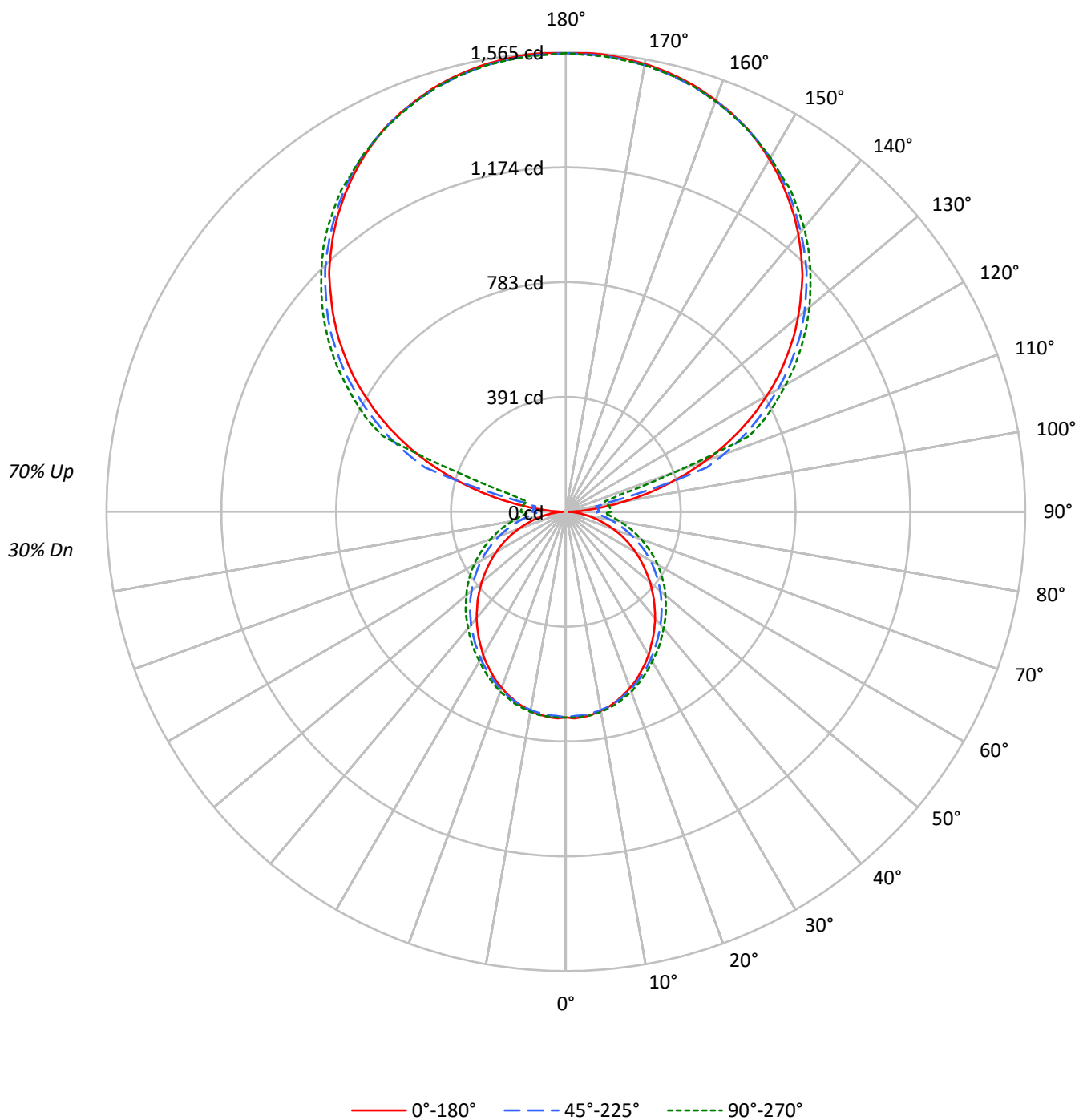
Lumens per Lamp: N/A
Luminaire Lumens: 7121.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	55	55	55	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°	7539	7539	7539
5°	7560	7318	7312
10°	7489	7120	7065
15°	7390	6901	6804
20°	7249	6657	6523
25°	7077	6382	6232
30°	6899	6133	5940
35°	6700	5873	5702
40°	6511	5634	5451
45°	6300	5403	5243
50°	6091	5174	5018
55°	5862	4940	4812
60°	5637	4699	4600
65°	5405	4444	4351
70°	5056	4156	4096
75°	4614	3828	3832
80°	4099	3498	3531
85°	3592	3230	3314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	0.9
10°-20°	189.4	2.7
20°-30°	283.3	4.0
30°-40°	338.2	4.7
40°-50°	353.8	5.0
50°-60°	332.1	4.7
60°-70°	277.4	3.9
70°-80°	198.3	2.8
80°-90°	121.1	1.7
90°-100°	129.3	1.8
100°-110°	320.9	4.5
110°-120°	689.3	9.7
120°-130°	849.6	11.9
130°-140°	894.7	12.6
140°-150°	829.9	11.7
150°-160°	667.8	9.4
160°-170°	431.0	6.1
170°-180°	148.5	2.1
0°-30°	539.1	7.6
0°-40°	877.3	12.3
0°-60°	1563.2	22.0
0°-90°	2160.0	30.3
90°-120°	1139.5	16.0
90°-150°	3713.7	52.2
90°-180°	4961.0	69.7
0°-180°	7121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	701	700	695	701	700	67
15°	668	670	669	677	676	188
25°	603	610	613	623	623	278
35°	519	531	541	552	556	324
45°	424	442	462	476	482	327
55°	324	349	376	397	403	290
65°	224	253	287	310	317	221
75°	121	157	195	220	230	130
85°	37	76	116	142	150	38
90°	11	60	114	145	155	11
95°	79	61	112	143	151	91
105°	352	383	312	127	137	373
115°	653	669	707	737	748	645
125°	917	926	953	972	979	820
135°	1140	1147	1160	1177	1177	878
145°	1315	1322	1325	1333	1336	823
155°	1448	1445	1447	1452	1445	667
165°	1527	1523	1522	1531	1523	431
175°	1563	1557	1558	1566	1557	149
180°	1563	1563	1563	1563	1563	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700.4	700.4	700.4	700.4	700.4
2.5°	704.2	702.0	695.9	702.0	701.2
5°	701.2	699.7	695.1	701.2	700.4
7.5°	695.9	695.9	691.3	698.9	698.1
10°	688.2	689.7	685.9	693.6	692.0
12.5°	679.1	681.4	679.1	685.9	684.4
15°	667.6	669.9	669.1	676.8	676.0
17.5°	653.9	658.5	657.7	664.6	663.0
20°	638.6	643.2	644.7	651.6	652.4
22.5°	622.6	627.2	629.5	638.6	637.9
25°	602.8	610.4	612.7	622.6	622.6
27.5°	583.7	592.1	596.7	605.1	605.8
30°	563.1	573.0	579.1	588.3	588.3
32.5°	540.2	551.6	560.0	570.0	572.2
35°	518.8	531.0	541.0	552.4	555.5
37.5°	495.9	509.7	521.1	534.1	536.4
40°	473.1	486.8	502.1	515.0	518.1
42.5°	447.9	465.4	481.5	495.9	500.5
45°	424.2	442.5	461.6	476.1	482.2
47.5°	399.0	419.6	441.0	457.0	461.6
50°	374.6	396.0	419.6	437.2	442.5
52.5°	348.7	371.6	398.3	416.6	423.5
55°	323.5	348.7	376.2	396.8	402.9
57.5°	299.1	325.0	354.8	375.4	382.3
60°	273.2	300.6	331.9	353.3	361.7
62.5°	248.7	277.0	310.5	331.9	339.5
65°	223.6	253.3	286.9	309.8	317.4
67.5°	198.4	229.7	263.2	288.4	294.5
70°	171.7	204.5	241.1	265.5	273.2
72.5°	147.3	180.1	218.2	243.4	251.0
75°	121.3	157.2	195.3	220.5	229.7
77.5°	99.2	135.1	173.2	199.9	206.8
80°	75.5	112.9	152.6	178.5	186.2
82.5°	54.9	93.1	133.5	159.5	167.1
85°	37.4	75.5	116.0	141.9	149.5
87.5°	22.9	61.0	100.0	125.9	133.5
90°	11.1	60.1	114.1	144.7	154.6
92.5°	35.9	61.7	110.3	143.6	151.7
95°	79.2	61.3	111.5	143.3	150.9
97.5°	136.5	131.5	108.2	140.2	149.1
100°	203.1	250.7	104.7	136.1	144.9
102.5°	278.9	315.4	147.7	130.8	140.7
105°	352.1	383.1	311.5	127.4	136.6
107.5°	429.1	455.6	504.2	346.0	200.8
110°	506.1	529.1	572.4	554.0	394.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	580.4	599.3	641.0	670.5	675.1
115°	652.8	668.9	706.8	736.8	747.5
117.5°	724.8	739.0	770.8	798.4	805.6
120°	790.2	804.5	833.1	860.0	865.3
122.5°	857.6	867.2	895.4	918.0	924.6
125°	917.1	926.4	953.2	971.5	979.2
127.5°	977.5	986.0	1010.9	1029.7	1032.7
130°	1033.2	1041.7	1061.7	1080.8	1083.1
132.5°	1085.8	1095.1	1110.1	1128.5	1130.3
135°	1140.4	1146.7	1159.7	1176.9	1177.2
137.5°	1186.8	1195.4	1203.1	1221.1	1222.5
140°	1232.6	1239.5	1245.3	1261.4	1262.8
142.5°	1275.5	1281.7	1285.2	1298.6	1298.9
145°	1315.0	1322.3	1324.7	1333.1	1336.2
147.5°	1352.5	1358.3	1360.6	1365.3	1362.5
150°	1387.3	1390.8	1393.2	1395.5	1393.5
152.5°	1418.7	1419.9	1421.0	1425.7	1419.9
155°	1447.7	1445.4	1446.6	1452.4	1445.4
157.5°	1470.9	1470.9	1469.8	1476.7	1467.5
160°	1491.8	1490.7	1489.5	1496.5	1488.4
162.5°	1511.6	1508.1	1506.9	1515.1	1508.1
165°	1526.7	1523.2	1522.0	1531.3	1523.2
167.5°	1539.4	1534.8	1534.8	1544.1	1534.8
170°	1549.9	1545.2	1545.2	1554.5	1545.2
172.5°	1556.8	1551.0	1552.2	1561.5	1551.0
175°	1562.7	1556.8	1558.0	1566.1	1556.8
177.5°	1565.0	1559.2	1560.3	1569.6	1558.0
180°	1562.7	1562.7	1562.7	1562.7	1562.7

(END OF REPORT)