

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: P1025536

Luminaire Tested: S124DIP-B575D1205UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025536
REPORT IS A COMBINATION OF REPORTS P996106 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1205UB30-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

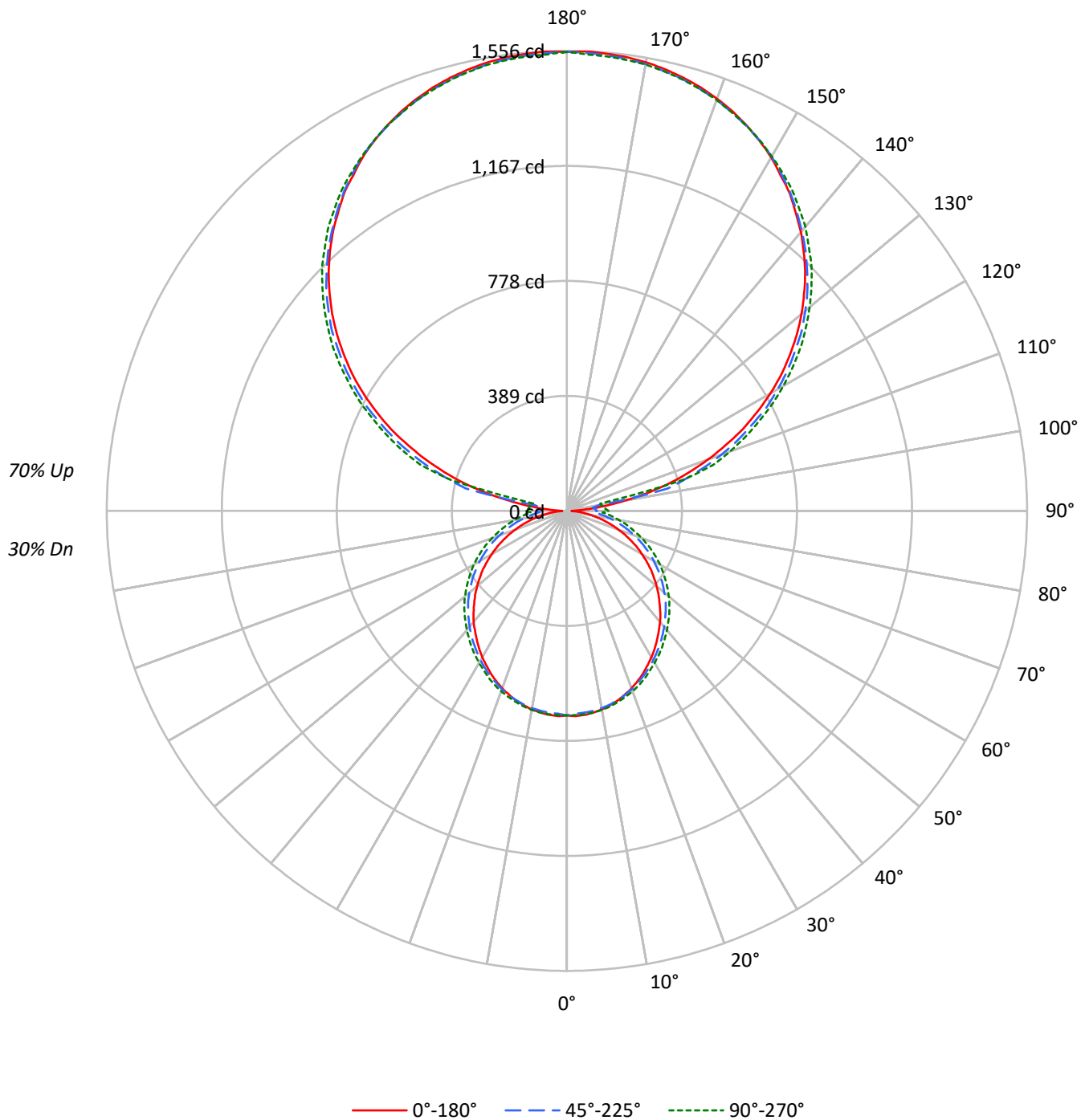
Lumens per Lamp: N/A
Luminaire Lumens: 7166.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	71	65	75	69	64	59	54	51	47	41	38	36	28	27	26
3	77	67	60	54	68	60	54	49	48	43	40	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	26	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	30	25	45	34	28	23	28	23	19	21	17	15	15	13	11
9	47	35	27	22	42	31	25	20	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°	5642	5642	5642
5°	5658	5495	5505
10°	5621	5387	5372
15°	5568	5266	5221
20°	5490	5133	5075
25°	5403	4988	4917
30°	5307	4845	4756
35°	5200	4698	4613
40°	5114	4557	4465
45°	4986	4424	4334
50°	4877	4274	4196
55°	4765	4129	4037
60°	4591	3949	3887
65°	4399	3754	3706
70°	4165	3531	3498
75°	3841	3285	3299
80°	3475	3032	3092
85°	2991	2780	2924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 5186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	0.9
10°-20°	187.8	2.6
20°-30°	284.0	4.0
30°-40°	343.6	4.8
40°-50°	363.2	5.1
50°-60°	341.9	4.8
60°-70°	283.7	4.0
70°-80°	199.1	2.8
80°-90°	115.4	1.6
90°-100°	118.4	1.7
100°-110°	388.9	5.4
110°-120°	681.2	9.5
120°-130°	841.4	11.7
130°-140°	888.2	12.4
140°-150°	824.5	11.5
150°-160°	663.6	9.3
160°-170°	428.0	6.0
170°-180°	147.5	2.1
0°-30°	537.4	7.5
0°-40°	881.0	12.3
0°-60°	1586.1	22.1
0°-90°	2184.3	30.5
90°-120°	1188.5	16.6
90°-150°	3742.6	52.2
90°-180°	4982.0	69.5
0°-180°	7166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	693	690	685	691	690	66
15°	664	665	662	669	669	187
25°	608	612	614	623	624	280
35°	532	541	549	559	562	333
45°	443	458	473	486	490	343
55°	347	363	387	402	407	309
65°	240	265	291	311	317	238
75°	133	162	194	216	223	142
85°	41	74	108	132	140	43
90°	16	60	102	132	140	12
95°	74	60	93	121	129	87
105°	356	379	413	443	408	374
115°	657	668	691	711	716	647
125°	920	924	941	960	965	822
135°	1139	1138	1148	1163	1170	878
145°	1313	1316	1316	1321	1327	820
155°	1439	1440	1436	1441	1438	663
165°	1518	1512	1512	1521	1511	429
175°	1552	1546	1547	1557	1543	148
180°	1552	1552	1552	1552	1552	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.9	691.9	691.9	691.9	691.9
2.5°	695.0	692.7	686.5	691.9	691.1
5°	692.7	690.4	684.9	691.1	690.4
7.5°	688.0	686.5	681.8	688.8	688.0
10°	681.8	681.1	677.2	684.2	683.4
12.5°	673.3	673.3	671.0	677.2	677.2
15°	664.0	664.8	662.5	669.4	668.7
17.5°	651.6	653.9	653.2	660.1	659.4
20°	638.4	640.8	641.5	649.3	649.3
22.5°	623.7	626.8	628.4	636.1	637.7
25°	607.5	612.1	614.4	623.0	623.7
27.5°	589.6	596.6	599.7	607.5	608.2
30°	571.8	578.0	583.4	592.0	593.5
32.5°	552.4	560.2	566.4	576.5	578.0
35°	531.5	540.8	548.6	559.4	561.7
37.5°	510.6	521.4	530.7	541.6	543.9
40°	490.5	500.5	511.4	523.0	526.1
42.5°	467.2	478.8	492.0	505.2	507.5
45°	443.2	457.9	472.6	485.8	489.7
47.5°	420.7	435.4	452.5	465.7	470.3
50°	395.9	413.0	430.0	445.5	450.2
52.5°	371.1	388.2	408.3	423.8	428.5
55°	347.1	363.4	386.6	402.1	406.8
57.5°	320.0	340.1	362.6	381.2	385.1
60°	293.7	313.8	339.4	357.2	363.4
62.5°	268.1	290.6	316.1	333.9	340.1
65°	240.2	265.0	291.3	310.7	316.9
67.5°	213.8	240.2	268.1	287.5	293.7
70°	186.7	213.1	242.5	263.4	268.9
72.5°	160.4	187.5	219.3	239.4	245.6
75°	133.3	161.9	194.5	216.2	223.1
77.5°	107.7	137.9	172.0	193.7	201.5
80°	84.5	115.4	149.5	172.8	179.0
82.5°	61.2	93.8	127.8	151.9	158.8
85°	41.1	73.6	108.5	131.7	139.5
87.5°	25.6	57.3	91.4	113.9	120.9
90°	15.9	59.7	102.2	131.7	140.2
92.5°	29.0	53.8	96.5	125.2	131.4
95°	74.0	60.0	92.9	120.8	129.0
97.5°	131.2	179.3	89.0	115.1	123.2
100°	198.9	240.0	110.0	111.2	117.7
102.5°	275.6	306.6	349.9	108.9	115.1
105°	356.5	379.0	413.4	443.2	407.6
107.5°	432.0	448.6	483.9	509.0	519.1
110°	507.8	522.1	556.3	576.4	586.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	581.3	597.6	625.5	641.4	652.2
115°	657.2	667.6	691.3	710.7	716.1
117.5°	725.7	735.0	761.7	776.8	783.0
120°	794.6	801.6	822.9	840.7	844.6
122.5°	859.7	862.0	885.2	901.9	904.9
125°	920.4	924.2	941.3	959.5	965.4
127.5°	979.6	980.0	1001.3	1014.1	1018.4
130°	1035.7	1036.1	1052.0	1067.1	1071.7
132.5°	1088.0	1089.5	1103.4	1117.8	1121.3
135°	1139.4	1138.3	1148.4	1163.1	1170.0
137.5°	1185.9	1185.2	1194.1	1208.0	1210.7
140°	1231.1	1232.8	1235.8	1249.4	1254.4
142.5°	1271.1	1275.7	1276.1	1286.9	1290.0
145°	1312.9	1315.6	1315.6	1321.3	1326.8
147.5°	1345.4	1351.6	1350.4	1352.4	1356.6
150°	1381.4	1385.2	1384.1	1384.1	1385.2
152.5°	1410.8	1414.3	1411.9	1414.3	1413.1
155°	1438.6	1439.8	1436.3	1441.0	1437.5
157.5°	1463.0	1463.0	1458.4	1464.2	1458.4
160°	1483.9	1480.4	1479.3	1486.3	1479.3
162.5°	1502.5	1497.9	1496.7	1503.7	1495.5
165°	1517.6	1511.8	1511.8	1521.1	1510.6
167.5°	1530.4	1524.6	1523.4	1533.9	1522.2
170°	1540.8	1533.9	1535.0	1544.3	1532.7
172.5°	1547.8	1540.8	1542.0	1551.3	1538.5
175°	1552.4	1545.5	1546.6	1557.1	1543.1
177.5°	1555.9	1547.8	1550.1	1559.4	1545.5
180°	1552.4	1552.4	1552.4	1552.4	1552.4

(END OF REPORT)