

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: P1013086

Luminaire Tested: S124DIP-B575D1205UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013086
REPORT IS A COMBINATION OF REPORTS P996099 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1205UB2750-4F0-XX-W2A-F_3000K
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

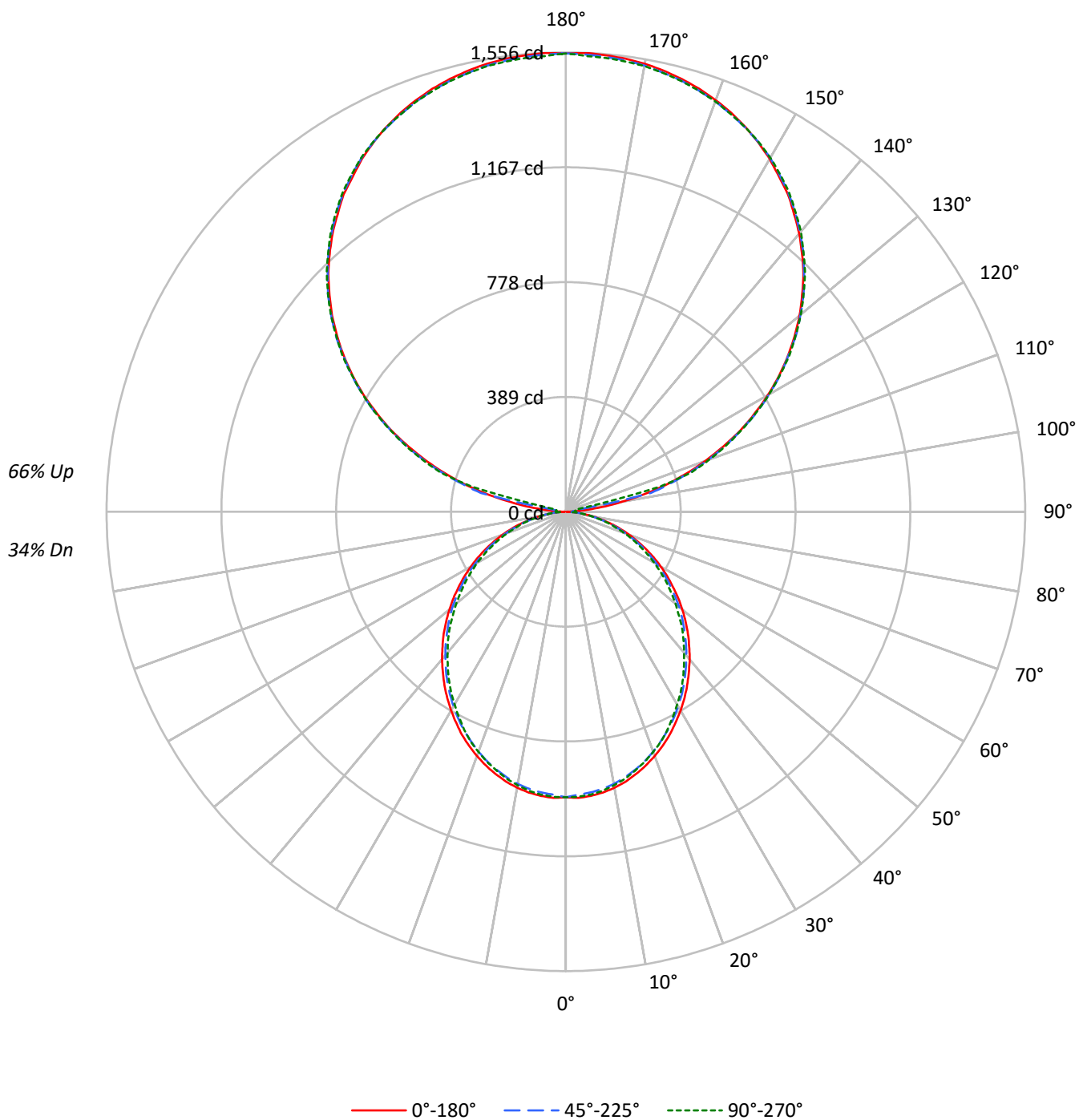
Lumens per Lamp: N/A
Luminaire Lumens: 7289.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	42	42	42			34
1	94	90	86	83	85	81	78	75	65	63	61	50	49	48	37	36	35			29
2	86	79	73	67	77	71	66	62	57	53	50	44	42	40	32	31	29			24
3	78	69	62	56	70	62	56	51	50	46	42	39	36	34	29	27	25			20
4	71	61	53	47	64	55	49	44	45	40	36	35	31	29	25	23	22			17
5	65	54	46	40	59	49	42	37	40	35	31	31	28	25	23	21	19			15
6	60	48	41	35	54	44	37	32	36	31	27	28	24	22	21	18	16			13
7	56	44	36	30	50	40	33	28	32	27	24	25	22	19	19	16	15			12
8	52	40	32	27	46	36	29	25	29	24	21	23	20	17	17	15	13			11
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	14	12			10
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	11			9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7885	7885	7885
5°	7892	7659	7668
10°	7825	7446	7394
15°	7713	7193	7084
20°	7569	6920	6765
25°	7409	6631	6420
30°	7214	6318	6042
35°	7012	5999	5676
40°	6802	5655	5287
45°	6582	5309	4923
50°	6338	4974	4521
55°	6073	4585	4121
60°	5801	4156	3705
65°	5492	3714	3235
70°	5133	3182	2732
75°	4599	2565	2188
80°	3920	1854	1539
85°	3042	1033	828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6582 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	1.3
10°-20°	256.8	3.5
20°-30°	377.9	5.2
30°-40°	439.3	6.0
40°-50°	439.3	6.0
50°-60°	384.2	5.3
60°-70°	285.2	3.9
70°-80°	161.8	2.2
80°-90°	49.5	0.7
90°-100°	51.5	0.7
100°-110°	339.4	4.7
110°-120°	648.0	8.9
120°-130°	822.7	11.3
130°-140°	880.1	12.1
140°-150°	823.0	11.3
150°-160°	663.6	9.1
160°-170°	428.0	5.9
170°-180°	147.5	2.0
0°-30°	725.8	10.0
0°-40°	1165.1	16.0
0°-60°	1988.6	27.3
0°-90°	2485.2	34.1
90°-120°	1039.0	14.3
90°-150°	3564.7	48.9
90°-180°	4804.0	65.9
0°-180°	7289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	966	963	955	963	962	92
15°	920	917	905	910	907	259
25°	833	828	817	818	814	383
35°	717	711	700	695	691	448
45°	585	580	567	559	556	451
55°	442	440	429	420	415	396
65°	300	296	288	280	277	297
75°	160	156	152	149	148	169
85°	42	42	40	40	40	45
90°	4	16	26	32	35	6
95°	64	24	26	32	34	79
105°	350	356	362	373	331	366
115°	653	656	655	657	657	642
125°	917	922	920	923	924	819
135°	1138	1137	1141	1144	1146	877
145°	1312	1316	1316	1317	1319	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°	967.0	967.0	967.0	967.0	967.0
2.5°	970.1	967.8	959.3	967.0	966.2
5°	966.2	963.1	954.6	963.1	961.6
7.5°	959.3	956.2	946.9	953.8	953.1
10°	949.2	946.1	936.0	942.2	940.7
12.5°	936.0	932.9	922.1	929.0	926.7
15°	919.7	916.6	905.0	909.7	907.3
17.5°	901.1	897.3	886.4	889.5	888.0
20°	880.2	876.3	864.7	867.0	865.5
22.5°	857.7	852.3	840.7	845.4	842.3
25°	833.0	827.5	816.7	817.5	814.4
27.5°	805.1	799.6	789.6	788.0	784.1
30°	777.2	771.0	760.9	757.8	753.9
32.5°	747.7	742.3	731.5	727.6	723.7
35°	716.7	711.3	700.5	695.0	691.2
37.5°	684.2	679.5	667.9	662.5	657.1
40°	652.4	646.2	634.6	626.8	623.0
42.5°	618.3	615.2	602.1	592.8	590.4
45°	585.0	579.6	567.2	558.7	556.3
47.5°	550.1	546.3	534.6	525.3	519.1
50°	514.5	511.4	500.5	489.7	485.1
52.5°	479.6	475.8	464.1	454.8	448.6
55°	442.4	440.1	429.3	420.0	415.3
57.5°	407.6	405.2	394.4	385.1	380.4
60°	371.1	367.3	357.2	350.2	346.4
62.5°	335.5	332.4	321.6	315.4	311.5
65°	299.9	296.0	288.2	280.5	276.6
67.5°	263.4	260.3	252.6	244.8	244.1
70°	230.1	224.7	218.5	212.3	210.0
72.5°	194.5	189.1	184.4	179.8	177.4
75°	159.6	155.7	151.9	148.8	148.0
77.5°	125.5	124.0	120.1	119.3	117.0
80°	95.3	93.0	91.4	89.9	89.1
82.5°	65.9	65.1	65.1	64.3	63.5
85°	41.8	41.8	40.3	40.3	39.5
87.5°	20.1	19.4	18.6	18.6	18.6
90°	3.5	16.3	25.5	32.5	34.8
92.5°	17.4	15.1	24.4	31.4	31.4
95°	63.9	24.4	25.5	32.5	33.7
97.5°	121.9	147.5	25.5	31.4	32.5
100°	190.4	211.3	51.1	31.4	32.5
102.5°	267.1	281.0	294.9	33.7	33.7
105°	349.5	356.5	362.3	372.7	330.9
107.5°	425.0	428.5	436.6	442.4	447.0
110°	501.6	505.1	512.1	514.4	517.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	575.9	582.9	585.2	584.1	588.7
115°	652.6	656.0	654.9	657.2	657.2
117.5°	721.1	725.7	729.2	728.0	728.0
120°	790.7	795.4	794.2	796.5	794.2
122.5°	855.8	858.1	860.4	861.6	859.2
125°	917.3	921.9	919.6	923.1	924.3
127.5°	976.5	977.7	983.5	982.3	981.2
130°	1033.4	1034.6	1038.1	1039.2	1039.2
132.5°	1085.7	1088.0	1092.6	1093.8	1092.6
135°	1137.9	1136.8	1141.4	1143.7	1146.0
137.5°	1184.4	1184.4	1190.2	1192.5	1191.3
140°	1229.6	1232.0	1234.3	1237.8	1238.9
142.5°	1270.3	1274.9	1276.1	1278.4	1278.4
145°	1312.1	1315.6	1315.6	1316.7	1319.1
147.5°	1344.6	1351.6	1350.4	1351.6	1352.7
150°	1380.6	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)