

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: P1027524

Luminaire Tested: S125DIP-B1090D850UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027524
REPORT IS A COMBINATION OF REPORTS P1001517 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D850UB50-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

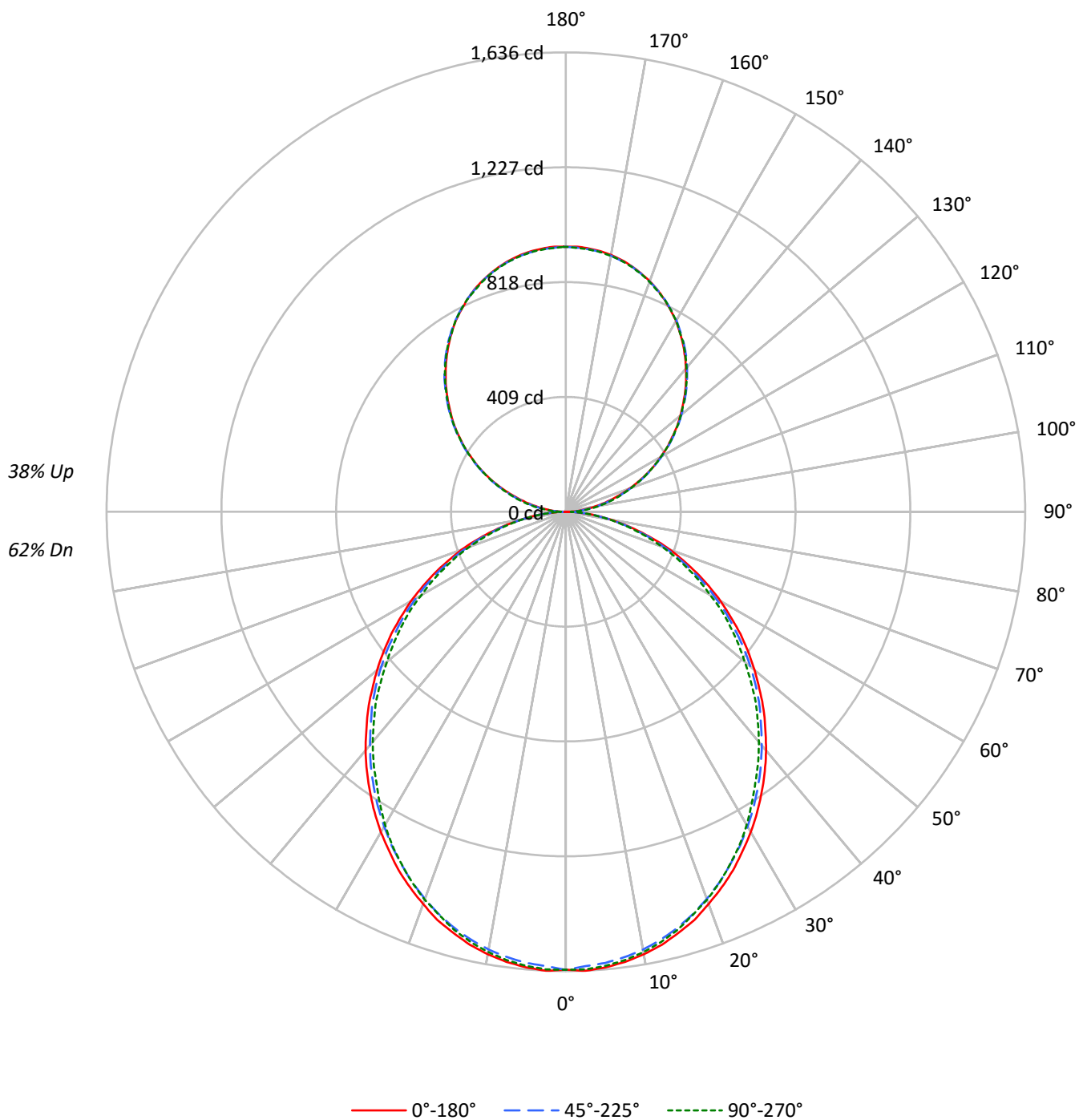
Lumens per Lamp: N/A
Luminaire Lumens: 6880.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 67.9
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67
1	100	96	92	88	94	90	86	83	79	76	74	68	67	65	59	58	56
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	52	50	47
3	83	74	66	60	78	69	62	57	61	56	51	53	49	46	46	43	40
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	38	35
5	70	58	50	44	65	55	47	42	48	42	38	43	38	34	37	33	30
6	65	52	44	38	60	49	42	36	44	38	33	38	34	30	34	30	27
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10450	10450	10450
5°	10450	10207	10227
10°	10364	9973	9942
15°	10228	9693	9606
20°	10043	9369	9222
25°	9846	9015	8810
30°	9608	8646	8375
35°	9354	8259	7889
40°	9091	7851	7457
45°	8806	7453	6997
50°	8493	7001	6462
55°	8183	6503	5969
60°	7813	5978	5396
65°	7372	5370	4804
70°	6920	4671	4121
75°	6166	3846	3332
80°	5254	2873	2451
85°	4059	1700	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8806 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	2.2
10°-20°	434.7	6.3
20°-30°	641.8	9.3
30°-40°	748.8	10.9
40°-50°	752.0	10.9
50°-60°	660.2	9.6
60°-70°	491.7	7.1
70°-80°	280.8	4.1
80°-90°	82.5	1.2
90°-100°	62.7	0.9
100°-110°	186.4	2.7
110°-120°	316.1	4.6
120°-130°	416.2	6.0
130°-140°	466.4	6.8
140°-150°	457.1	6.6
150°-160°	384.0	5.6
160°-170°	255.2	3.7
170°-180°	89.3	1.3
0°-30°	1230.4	17.9
0°-40°	1979.2	28.8
0°-60°	3391.4	49.3
0°-90°	4246.5	61.7
90°-120°	565.3	8.2
90°-150°	1905.0	27.7
90°-180°	2634.0	38.3
0°-180°	6880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1628	1626	1613	1624	1623	155
15°	1552	1548	1534	1541	1541	438
25°	1409	1403	1386	1388	1384	648
35°	1217	1212	1194	1187	1177	761
45°	996	991	976	960	956	767
55°	759	755	737	725	716	677
65°	512	510	496	484	479	508
75°	272	270	263	259	254	290
85°	71	72	72	71	68	78
90°	1	7	12	15	18	8
95°	48	49	56	62	63	50
105°	167	171	176	180	182	179
115°	316	319	321	320	319	313
125°	462	466	467	466	465	414
135°	601	605	606	606	603	463
145°	728	731	733	733	731	455
155°	833	833	834	836	833	384
165°	905	904	905	908	903	255
175°	941	938	938	943	938	89
180°	944	944	944	944	944	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.0	1631.0	1631.0	1631.0	1631.0
2.5°	1636.1	1632.3	1619.4	1632.3	1631.0
5°	1628.4	1625.8	1612.9	1624.5	1623.2
7.5°	1616.8	1614.2	1600.0	1611.6	1610.3
10°	1600.0	1597.4	1583.2	1593.5	1592.3
12.5°	1579.4	1574.2	1561.3	1569.0	1569.0
15°	1552.3	1548.4	1534.2	1540.6	1540.6
17.5°	1523.9	1517.4	1503.2	1511.0	1504.5
20°	1486.4	1483.9	1467.1	1476.1	1469.7
22.5°	1449.0	1443.9	1428.4	1433.5	1429.7
25°	1409.0	1402.6	1385.8	1388.4	1384.5
27.5°	1362.6	1358.7	1341.9	1343.2	1339.4
30°	1317.4	1313.5	1294.2	1291.6	1287.7
32.5°	1268.4	1261.9	1245.2	1240.0	1232.3
35°	1216.8	1211.6	1193.5	1187.1	1176.8
37.5°	1163.9	1157.4	1140.6	1131.6	1125.2
40°	1109.7	1103.2	1085.2	1073.5	1069.7
42.5°	1051.6	1046.4	1028.4	1018.1	1011.6
45°	996.1	991.0	975.5	960.0	956.1
47.5°	935.5	936.8	917.4	901.9	892.9
50°	877.4	873.5	858.1	841.3	832.3
52.5°	818.1	815.5	798.7	784.5	774.2
55°	758.7	754.8	736.8	725.2	716.1
57.5°	695.5	694.2	678.7	663.2	659.4
60°	636.1	631.0	616.8	603.9	594.8
62.5°	574.2	570.3	558.7	544.5	538.1
65°	512.3	509.7	495.5	483.9	478.7
67.5°	451.6	446.5	436.1	425.8	423.2
70°	394.8	388.4	376.8	369.0	363.9
72.5°	332.9	329.0	322.6	313.5	308.4
75°	272.3	269.7	263.2	259.4	254.2
77.5°	215.5	214.2	210.3	207.7	203.9
80°	162.6	162.6	160.0	158.7	156.1
82.5°	116.1	113.5	113.5	111.0	111.0
85°	71.0	72.3	72.3	71.0	68.4
87.5°	34.8	34.8	33.5	33.5	31.0
90°	0.7	6.6	11.7	15.4	17.6
92.5°	22.0	25.7	32.3	37.5	38.9
95°	47.7	49.2	56.5	61.7	63.2
97.5°	73.4	74.2	84.4	88.9	89.6
100°	102.8	102.8	112.4	119.0	120.4
102.5°	134.4	138.1	141.7	149.1	151.3
105°	167.4	171.1	175.5	179.9	182.1
107.5°	203.4	207.1	210.8	213.0	213.0
110°	240.9	244.5	246.7	248.9	248.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	279.0	280.5	283.4	284.2	282.7
115°	316.5	319.4	320.9	320.2	319.4
117.5°	354.7	355.4	356.9	357.6	354.7
120°	389.9	393.6	394.3	394.3	391.4
122.5°	428.1	428.8	431.0	430.3	428.1
125°	461.9	466.3	467.0	465.6	464.8
127.5°	499.3	501.5	502.3	501.5	500.1
130°	532.4	536.1	537.5	536.8	535.3
132.5°	565.4	572.0	571.3	570.6	568.4
135°	600.7	605.1	605.8	605.8	602.9
137.5°	633.7	638.1	639.6	640.3	636.7
140°	665.3	669.0	671.2	672.6	669.0
142.5°	696.9	699.8	702.7	703.5	699.8
145°	727.7	730.7	732.9	732.9	730.7
147.5°	756.4	758.6	760.0	762.2	756.4
150°	785.0	784.3	787.2	787.2	785.7
152.5°	808.5	810.0	810.7	812.9	810.0
155°	832.7	832.7	833.5	836.4	832.7
157.5°	854.8	853.3	854.0	857.0	851.8
160°	873.8	871.6	872.4	875.3	871.6
162.5°	890.7	889.3	889.3	892.9	888.5
165°	905.4	904.0	904.7	907.6	903.2
167.5°	918.6	915.7	915.7	920.1	915.7
170°	928.9	926.0	926.0	930.4	925.2
172.5°	936.3	933.3	933.3	937.7	933.3
175°	941.4	938.5	938.5	942.9	937.7
177.5°	945.1	942.1	941.4	945.8	940.7
180°	943.6	943.6	943.6	943.6	943.6

(END OF REPORT)