

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: P1026693

Luminaire Tested: S125DIP-B1090D1090UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026693
REPORT IS A COMBINATION OF REPORTS P1001242 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1090UB2750-4F0-XX-W2A-F_5000K
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

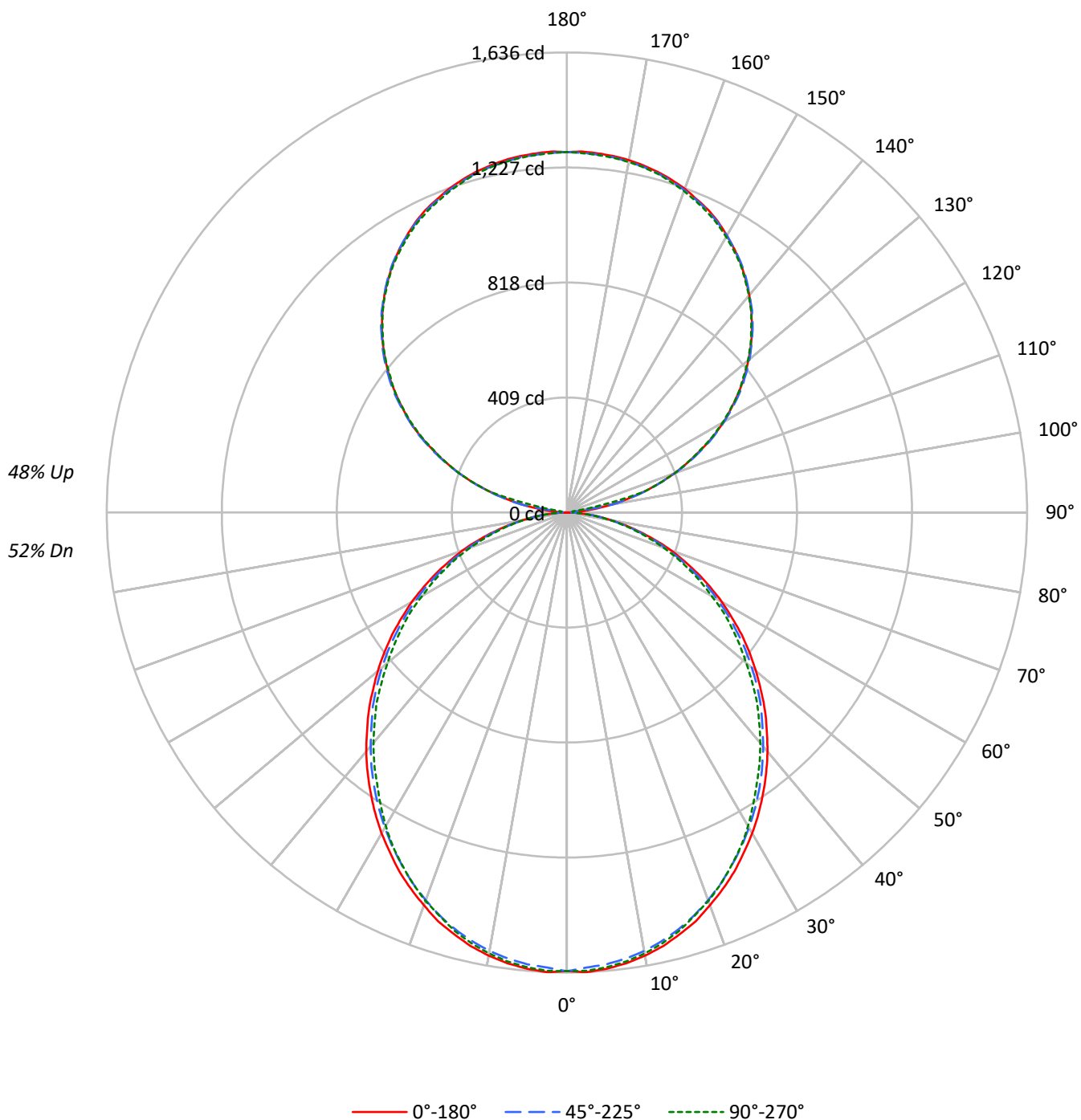
Lumens per Lamp: N/A
Luminaire Lumens: 8185.1 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	108	108	108	108	99	99	99	99	84	84	84	71	71	71	58	58	58	58	58	58
1	98	94	90	86	91	87	83	80	74	71	69	62	60	59	51	50	49	49	49	44
2	89	82	76	70	82	76	71	66	65	61	57	54	51	49	45	43	41	41	41	36
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	40	37	35	35	35	31
4	75	64	56	50	69	59	52	47	51	45	41	43	39	35	36	33	30	30	30	26
5	68	57	49	42	63	53	46	40	45	40	35	38	34	31	32	29	26	26	26	23
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	26	23	23	23	20
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	26	23	20	20	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	18	18	16
9	50	38	31	25	47	36	29	24	31	25	22	27	22	19	22	19	17	17	17	14
10	47	35	28	23	44	33	26	22	29	23	19	25	20	17	21	17	15	15	15	13

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	1.9
10°-20°	434.7	5.3
20°-30°	641.8	7.8
30°-40°	748.8	9.1
40°-50°	752.0	9.2
50°-60°	660.2	8.1
60°-70°	491.7	6.0
70°-80°	280.8	3.4
80°-90°	83.0	1.0
90°-100°	43.5	0.5
100°-110°	289.3	3.5
110°-120°	521.0	6.4
120°-130°	668.8	8.2
130°-140°	719.3	8.8
140°-150°	675.1	8.2
150°-160°	546.1	6.7
160°-170°	353.2	4.3
170°-180°	121.8	1.5
0°-30°	1230.4	15.0
0°-40°	1979.2	24.2
0°-60°	3391.4	41.4
0°-90°	4246.9	51.9
90°-120°	853.9	10.4
90°-150°	2917.1	35.6
90°-180°	3938.0	48.1
0°-180°	8185.1	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	9	15	20	23	8
95°	54	51	15	20	20	66
105°	279	283	283	283	282	296
115°	525	529	530	526	521	520
125°	746	753	753	749	746	666
135°	930	936	934	932	927	717
145°	1079	1080	1080	1082	1076	675
155°	1188	1182	1184	1187	1179	547
165°	1254	1248	1249	1254	1247	354
175°	1282	1276	1277	1285	1276	122
180°	1282	1282	1282	1282	1282	

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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°	1.0	8.6	15.2	20.0	22.8
92.5°	18.1	9.5	15.2	20.0	20.9
95°	54.2	51.3	15.2	20.0	20.0
97.5°	101.7	107.4	17.1	19.0	20.0
100°	158.7	161.6	165.4	23.8	20.0
102.5°	216.7	220.5	222.4	224.3	144.5
105°	279.4	283.2	283.2	283.2	282.3
107.5°	344.0	344.0	345.9	346.9	343.1
110°	406.7	406.7	408.7	405.8	406.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	465.7	468.5	469.5	465.7	463.8
115°	524.6	529.3	530.3	526.5	520.8
117.5°	586.4	586.4	590.2	584.5	582.6
120°	643.4	642.4	645.3	643.4	638.6
122.5°	693.8	698.5	699.5	697.6	691.9
125°	746.0	752.7	752.7	748.9	746.0
127.5°	796.4	801.1	800.2	798.3	790.7
130°	842.0	846.8	847.7	844.9	840.1
132.5°	887.6	893.3	890.5	890.5	885.7
135°	930.4	936.1	934.2	932.3	926.6
137.5°	970.3	976.0	974.1	974.1	969.4
140°	1009.3	1011.2	1010.2	1012.1	1006.4
142.5°	1044.4	1045.4	1047.3	1047.3	1041.6
145°	1078.6	1080.5	1080.5	1081.5	1075.8
147.5°	1109.1	1109.1	1110.0	1111.0	1104.3
150°	1137.6	1135.7	1137.6	1139.5	1131.9
152.5°	1165.1	1160.4	1162.3	1164.2	1157.5
155°	1187.9	1182.2	1184.1	1187.0	1179.4
157.5°	1206.0	1203.1	1203.1	1206.0	1198.4
160°	1225.0	1219.3	1220.2	1224.1	1216.4
162.5°	1240.2	1234.5	1235.5	1241.2	1232.6
165°	1253.5	1247.8	1248.8	1254.5	1246.9
167.5°	1264.0	1258.3	1259.2	1265.9	1257.3
170°	1272.5	1265.9	1266.8	1274.4	1265.9
172.5°	1278.2	1271.6	1273.5	1280.1	1271.6
175°	1282.0	1276.3	1277.3	1284.9	1276.3
177.5°	1284.9	1279.2	1280.1	1286.8	1279.2
180°	1282.0	1282.0	1282.0	1282.0	1282.0

(END OF REPORT)