

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: P1027310

Luminaire Tested: S125DIP-B1090D1090UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027310
REPORT IS A COMBINATION OF REPORTS P1001225 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1090UB27-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

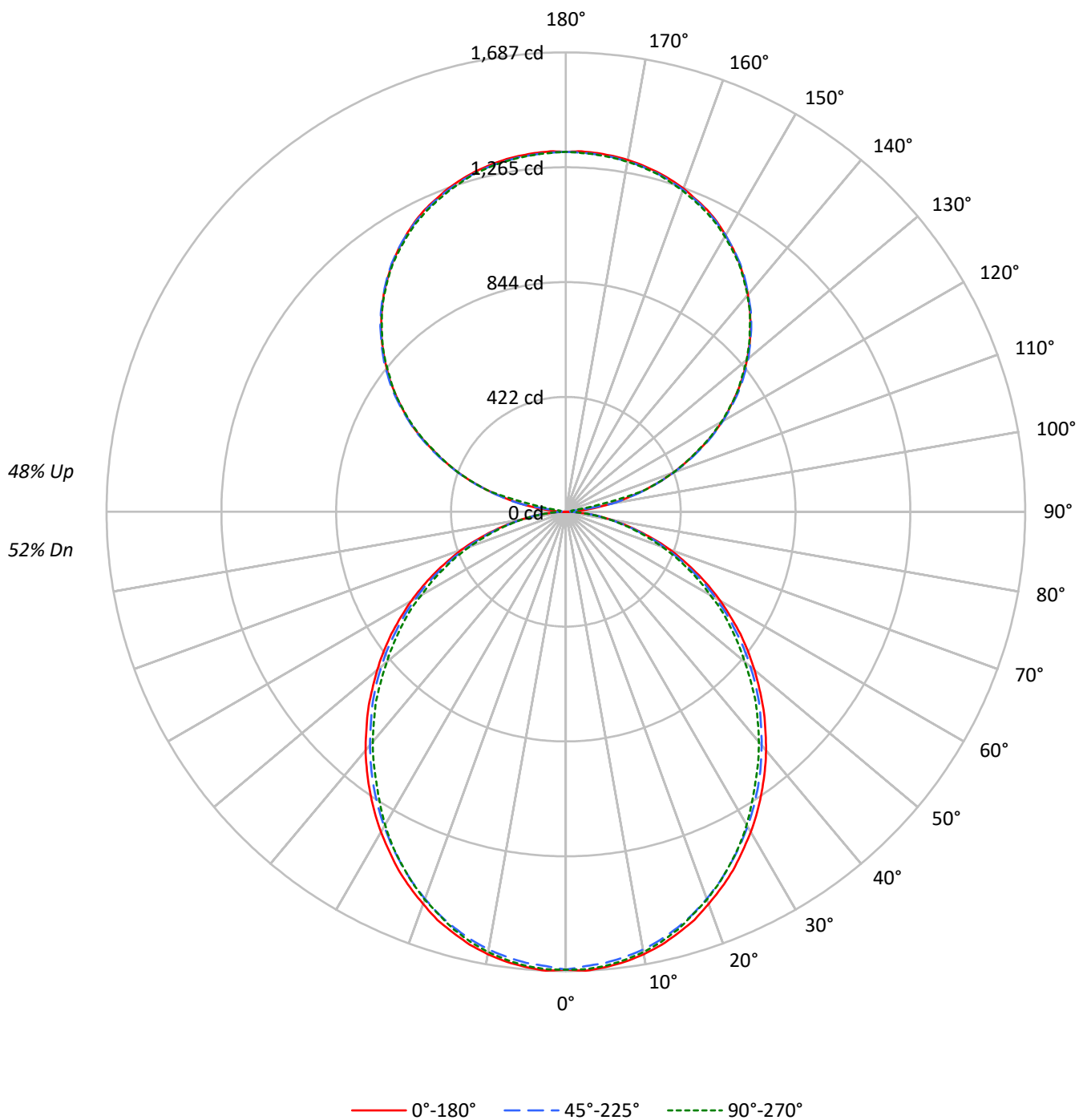
Lumens per Lamp: N/A
Luminaire Lumens: 8440.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	108	108	108	108	99	99	99	99	84	84	84	71	71	71	58	58	58
1	98	94	90	86	91	87	83	80	74	71	69	62	60	59	51	50	49
2	89	82	76	70	82	76	71	66	65	61	57	54	51	49	45	43	41
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	40	37	35
4	75	64	56	50	69	59	52	47	51	45	41	43	39	35	36	33	30
5	68	57	49	42	63	53	46	40	45	40	35	38	34	31	32	29	26
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	26	23	20
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18
9	50	38	31	25	47	36	29	24	31	25	22	27	22	19	22	19	17
10	47	35	28	23	44	33	26	22	29	23	19	25	20	17	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10775	10775	10775
5°	10775	10525	10545
10°	10686	10284	10251
15°	10546	9995	9905
20°	10356	9660	9508
25°	10152	9295	9084
30°	9907	8915	8636
35°	9644	8517	8135
40°	9373	8095	7688
45°	9080	7684	7215
50°	8757	7218	6663
55°	8437	6705	6155
60°	8056	6164	5564
65°	7600	5537	4954
70°	7136	4816	4249
75°	6356	3965	3436
80°	5416	2962	2528
85°	4185	1752	1393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9080 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	1.9
10°-20°	448.2	5.3
20°-30°	661.7	7.8
30°-40°	772.1	9.1
40°-50°	775.4	9.2
50°-60°	680.7	8.1
60°-70°	507.0	6.0
70°-80°	289.6	3.4
80°-90°	85.6	1.0
90°-100°	44.9	0.5
100°-110°	298.4	3.5
110°-120°	537.3	6.4
120°-130°	689.7	8.2
130°-140°	741.8	8.8
140°-150°	696.2	8.2
150°-160°	563.1	6.7
160°-170°	364.2	4.3
170°-180°	125.6	1.5
0°-30°	1268.7	15.0
0°-40°	2040.7	24.2
0°-60°	3496.8	41.4
0°-90°	4379.0	51.9
90°-120°	880.5	10.4
90°-150°	3008.1	35.6
90°-180°	4061.0	48.1
0°-180°	8440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1679	1676	1663	1675	1674	159
15°	1600	1596	1582	1588	1588	451
25°	1453	1446	1429	1432	1428	668
35°	1255	1249	1231	1224	1213	785
45°	1027	1022	1006	990	986	791
55°	782	778	760	748	738	698
65°	528	526	511	499	494	524
75°	281	278	271	267	262	299
85°	73	74	74	73	70	80
90°	1	9	16	21	24	8
95°	56	53	16	21	21	68
105°	288	292	292	292	291	305
115°	541	546	547	543	537	536
125°	769	776	776	772	769	687
135°	959	965	963	961	956	740
145°	1112	1114	1114	1115	1109	696
155°	1225	1219	1221	1224	1216	564
165°	1293	1287	1288	1294	1286	365
175°	1322	1316	1317	1325	1316	126
180°	1322	1322	1322	1322	1322	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1687.0	1683.0	1669.7	1683.0	1681.7
5°	1679.0	1676.4	1663.1	1675.0	1673.7
7.5°	1667.0	1664.4	1649.7	1661.7	1660.4
10°	1649.7	1647.1	1632.5	1643.1	1641.8
12.5°	1628.5	1623.1	1609.8	1617.8	1617.8
15°	1600.5	1596.5	1581.9	1588.5	1588.5
17.5°	1571.3	1564.6	1550.0	1557.9	1551.3
20°	1532.7	1530.0	1512.7	1522.0	1515.4
22.5°	1494.1	1488.8	1472.8	1478.1	1474.1
25°	1452.8	1446.2	1428.9	1431.6	1427.6
27.5°	1404.9	1401.0	1383.7	1385.0	1381.0
30°	1358.4	1354.4	1334.4	1331.8	1327.8
32.5°	1307.8	1301.2	1283.9	1278.6	1270.6
35°	1254.6	1249.3	1230.7	1224.0	1213.4
37.5°	1200.1	1193.4	1176.1	1166.8	1160.1
40°	1144.2	1137.5	1118.9	1106.9	1102.9
42.5°	1084.3	1079.0	1060.4	1049.7	1043.1
45°	1027.1	1021.8	1005.8	989.8	985.9
47.5°	964.6	965.9	945.9	930.0	920.7
50°	904.7	900.7	884.7	867.4	858.1
52.5°	843.5	840.8	823.5	808.9	798.3
55°	782.3	778.3	759.7	747.7	738.4
57.5°	717.1	715.8	699.8	683.8	679.9
60°	655.9	650.6	636.0	622.6	613.3
62.5°	592.0	588.1	576.1	561.4	554.8
65°	528.2	525.5	510.9	498.9	493.6
67.5°	465.7	460.3	449.7	439.0	436.4
70°	407.1	400.5	388.5	380.5	375.2
72.5°	343.3	339.3	332.6	323.3	318.0
75°	280.7	278.1	271.4	267.4	262.1
77.5°	222.2	220.9	216.9	214.2	210.2
80°	167.6	167.6	165.0	163.6	161.0
82.5°	119.7	117.1	117.1	114.4	114.4
85°	73.2	74.5	74.5	73.2	70.5
87.5°	35.9	35.9	34.6	34.6	31.9
90°	1.0	8.8	15.7	20.6	23.5
92.5°	18.6	9.8	15.7	20.6	21.6
95°	55.9	52.9	15.7	20.6	20.6
97.5°	104.9	110.7	17.6	19.6	20.6
100°	163.7	166.6	170.5	24.5	20.6
102.5°	223.4	227.4	229.3	231.3	149.0
105°	288.1	292.0	292.0	292.0	291.1
107.5°	354.8	354.8	356.7	357.7	353.8
110°	419.4	419.4	421.4	418.5	419.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	480.2	483.1	484.1	480.2	478.2
115°	541.0	545.9	546.8	542.9	537.0
117.5°	604.7	604.7	608.6	602.7	600.8
120°	663.5	662.5	665.4	663.5	658.6
122.5°	715.4	720.3	721.3	719.3	713.5
125°	769.3	776.2	776.2	772.3	769.3
127.5°	821.3	826.2	825.2	823.2	815.4
130°	868.3	873.2	874.2	871.2	866.3
132.5°	915.3	921.2	918.3	918.3	913.4
135°	959.4	965.3	963.4	961.4	955.5
137.5°	1000.6	1006.5	1004.5	1004.5	999.6
140°	1040.8	1042.7	1041.8	1043.7	1037.8
142.5°	1077.0	1078.0	1080.0	1080.0	1074.1
145°	1112.3	1114.3	1114.3	1115.3	1109.4
147.5°	1143.7	1143.7	1144.7	1145.6	1138.8
150°	1173.1	1171.1	1173.1	1175.0	1167.2
152.5°	1201.5	1196.6	1198.6	1200.5	1193.7
155°	1225.0	1219.1	1221.1	1224.0	1216.2
157.5°	1243.6	1240.7	1240.7	1243.6	1235.8
160°	1263.2	1257.4	1258.3	1262.3	1254.4
162.5°	1278.9	1273.0	1274.0	1279.9	1271.1
165°	1292.6	1286.8	1287.7	1293.6	1285.8
167.5°	1303.4	1297.5	1298.5	1305.4	1296.6
170°	1312.2	1305.4	1306.4	1314.2	1305.4
172.5°	1318.1	1311.3	1313.2	1320.1	1311.3
175°	1322.0	1316.2	1317.1	1325.0	1316.2
177.5°	1325.0	1319.1	1320.1	1326.9	1319.1
180°	1322.0	1322.0	1322.0	1322.0	1322.0

(END OF REPORT)