

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: P1027393

Luminaire Tested: S125DIP-B1090D1270UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027393
REPORT IS A COMBINATION OF REPORTS P1001338 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB50-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

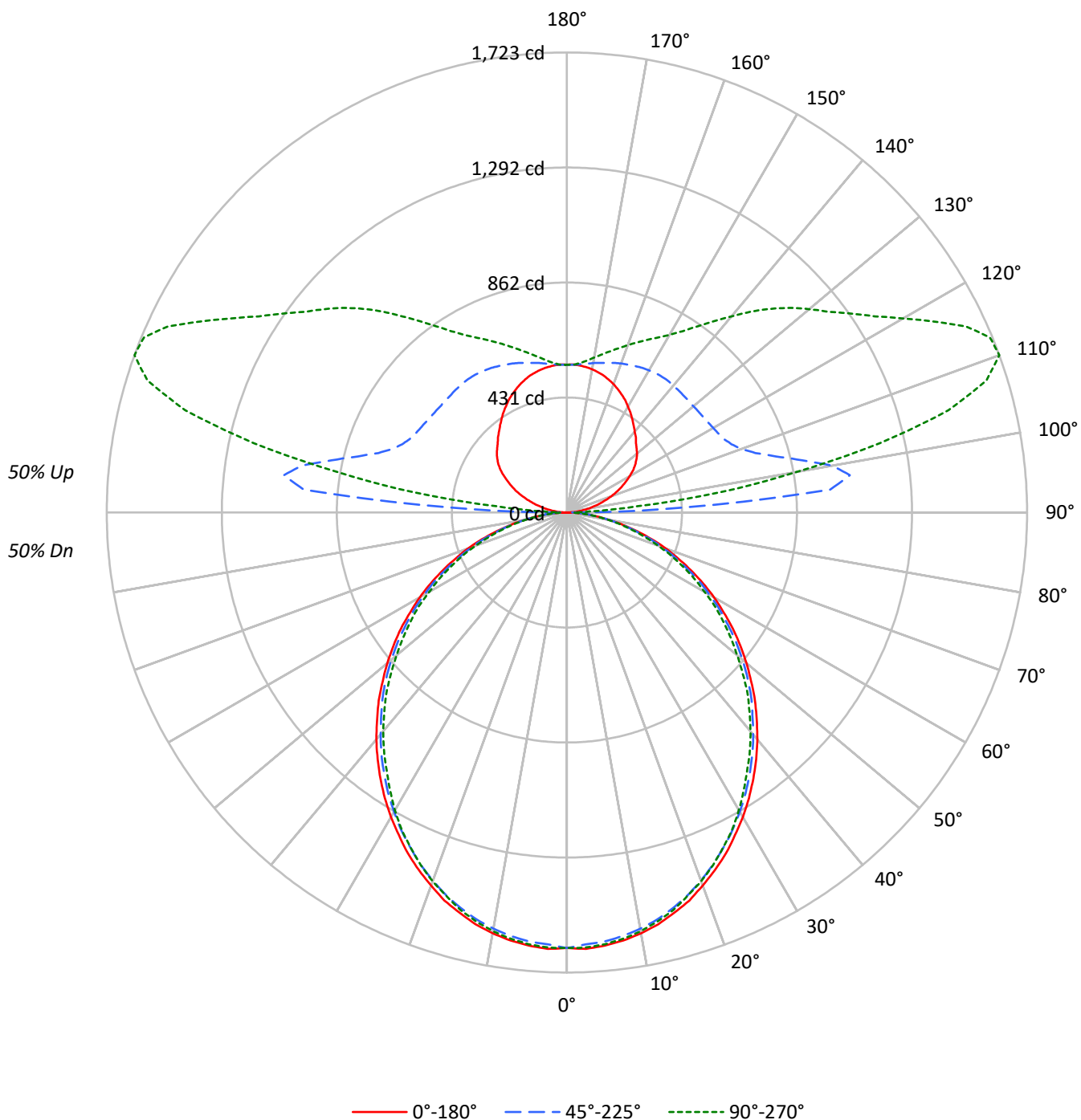
Lumens per Lamp: N/A
Luminaire Lumens: 8415.5 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57
1	98	93	90	86	90	86	83	80	73	71	69	61	59	58	50	49	48
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40
3	81	72	64	58	75	66	60	55	57	52	48	47	44	41	39	36	34
4	74	63	55	49	68	59	52	46	50	45	41	42	38	35	35	32	29
5	68	57	48	42	63	52	45	40	45	39	35	38	34	30	31	28	26
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20
8	54	42	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15

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	1.8
10°-20°	434.7	5.2
20°-30°	641.8	7.6
30°-40°	748.8	8.9
40°-50°	752.0	8.9
50°-60°	660.2	7.8
60°-70°	491.7	5.8
70°-80°	280.8	3.3
80°-90°	83.3	1.0
90°-100°	417.0	5.0
100°-110°	866.3	10.3
110°-120°	809.1	9.6
120°-130°	654.7	7.8
130°-140°	526.1	6.3
140°-150°	397.1	4.7
150°-160°	279.6	3.3
160°-170°	164.8	2.0
170°-180°	53.6	0.6
0°-30°	1230.4	14.6
0°-40°	1979.2	23.5
0°-60°	3391.4	40.3
0°-90°	4247.2	50.5
90°-120°	2092.5	24.9
90°-150°	3670.4	43.6
90°-180°	4168.0	49.5
0°-180°	8415.5	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	10	18	24	26	7
95°	37	109	989	449	262	38
105°	126	176	810	1594	1480	133
115°	226	272	650	1401	1648	222
125°	313	366	623	1114	1299	278
135°	366	440	619	934	1079	284
145°	426	488	621	773	851	267
155°	487	524	605	684	714	224
165°	532	546	581	616	625	150
175°	553	553	557	564	562	53
180°	554	554	554	554	554	

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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°	1.1	10.0	17.9	23.5	25.7
92.5°	16.7	91.6	445.5	118.9	82.6
95°	36.8	108.8	989.3	448.9	262.4
97.5°	56.9	117.8	1068.6	810.6	575.0
100°	78.2	135.2	1008.3	1145.6	870.9
102.5°	101.6	154.6	902.2	1429.2	1201.5
105°	126.2	176.4	809.5	1593.9	1479.5
107.5°	149.6	199.4	740.3	1640.2	1647.0
110°	175.3	223.3	694.5	1596.2	1722.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	201.0	247.4	667.7	1504.0	1714.0
115°	225.6	271.8	649.9	1400.8	1648.1
117.5°	247.9	297.0	639.8	1307.0	1548.7
120°	270.2	321.0	633.1	1228.2	1452.7
122.5°	293.7	344.4	627.5	1165.2	1367.8
125°	312.6	366.2	623.1	1114.4	1298.6
127.5°	328.3	387.4	620.8	1070.8	1234.9
130°	342.8	407.6	618.6	1026.7	1184.7
132.5°	354.0	425.4	618.6	979.2	1134.5
135°	366.2	440.5	618.6	934.0	1078.6
137.5°	381.9	454.4	619.7	886.6	1020.6
140°	395.3	466.2	620.8	843.0	959.2
142.5°	410.9	477.4	621.9	805.7	902.2
145°	426.5	488.5	620.8	773.2	850.8
147.5°	443.3	498.6	618.6	745.3	805.1
150°	457.8	507.5	615.2	722.4	768.2
152.5°	473.4	516.4	610.8	702.9	739.2
155°	486.8	523.7	605.2	684.0	713.5
157.5°	499.1	531.0	599.6	666.0	690.1
160°	511.4	536.5	594.0	648.2	666.6
162.5°	521.4	542.1	587.3	632.0	645.4
165°	531.5	546.0	580.6	615.8	625.3
167.5°	538.2	548.2	573.9	600.8	606.3
170°	544.9	551.0	568.3	586.2	589.6
172.5°	549.4	552.2	561.6	574.4	573.9
175°	552.7	552.7	557.2	563.9	561.6
177.5°	554.9	552.7	553.8	557.2	553.8
180°	553.8	553.8	553.8	553.8	553.8

(END OF REPORT)