

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: P1027384

Luminaire Tested: S125DIP-B1090D1270UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027384
REPORT IS A COMBINATION OF REPORTS P1001329 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB40-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

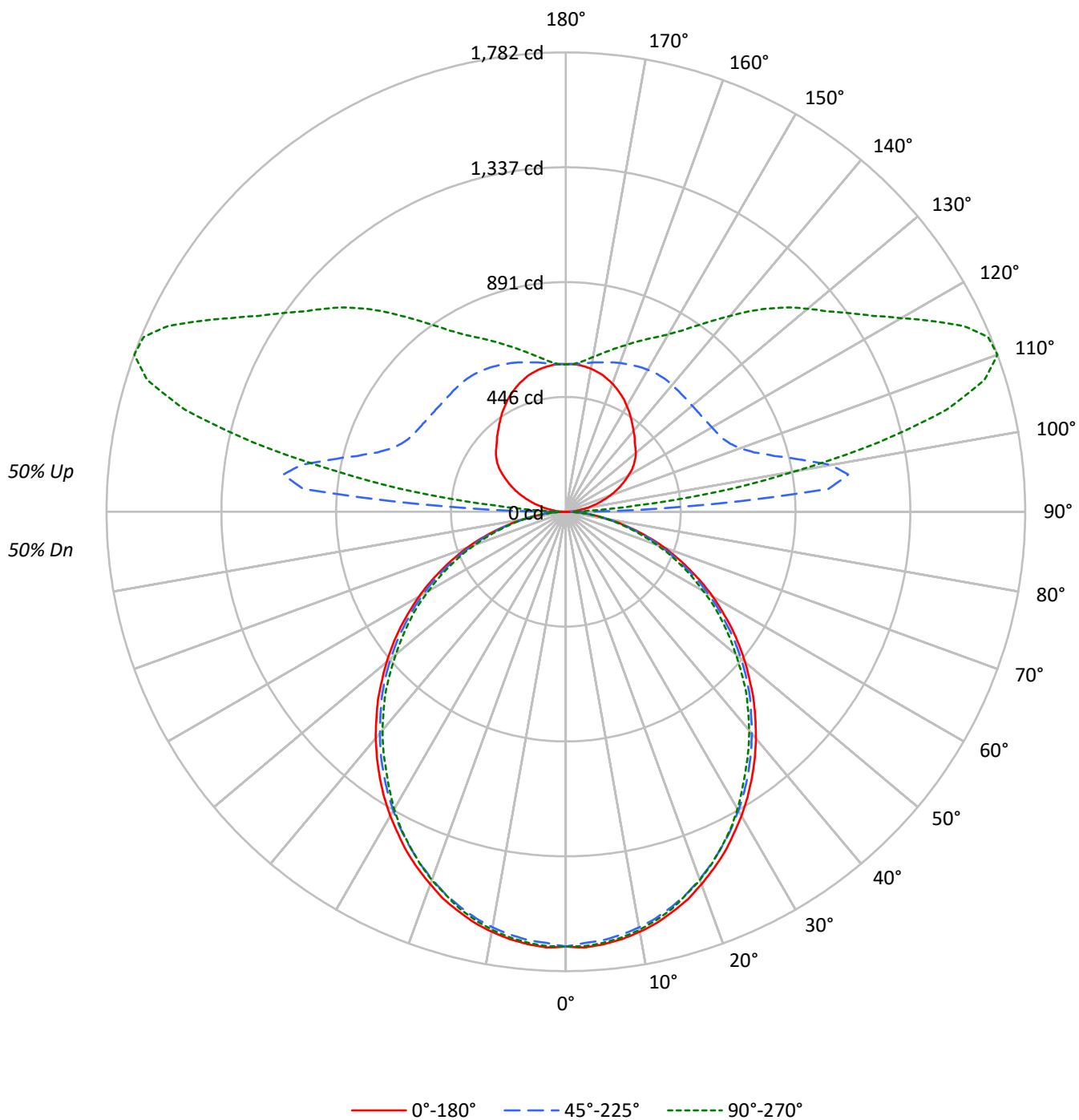
Lumens per Lamp: N/A
Luminaire Lumens: 8702.8 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	10807	10807	10807
5°	10807	10556	10576
10°	10717	10314	10281
15°	10577	10024	9935
20°	10387	9689	9537
25°	10183	9322	9111
30°	9936	8941	8662
35°	9673	8542	8159
40°	9401	8119	7711
45°	9107	7707	7237
50°	8783	7240	6683
55°	8462	6724	6174
60°	8081	6181	5582
65°	7623	5553	4969
70°	7157	4830	4262
75°	6376	3977	3446
80°	5432	2971	2535
85°	4197	1756	1397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.8
10°-20°	449.6	5.2
20°-30°	663.7	7.6
30°-40°	774.4	8.9
40°-50°	777.7	8.9
50°-60°	682.7	7.8
60°-70°	508.5	5.8
70°-80°	290.4	3.3
80°-90°	86.1	1.0
90°-100°	431.3	5.0
100°-110°	895.9	10.3
110°-120°	836.8	9.6
120°-130°	677.1	7.8
130°-140°	544.0	6.3
140°-150°	410.6	4.7
150°-160°	289.1	3.3
160°-170°	170.4	2.0
170°-180°	55.4	0.6
0°-30°	1272.4	14.6
0°-40°	2046.8	23.5
0°-60°	3507.2	40.3
0°-90°	4392.3	50.5
90°-120°	2163.9	24.9
90°-150°	3795.6	43.6
90°-180°	4311.0	49.5
0°-180°	8702.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1684	1681	1668	1680	1679	160
15°	1605	1601	1587	1593	1593	453
25°	1457	1450	1433	1436	1432	670
35°	1258	1253	1234	1228	1217	787
45°	1030	1025	1009	993	989	794
55°	785	781	762	750	741	700
65°	530	527	512	500	495	525
75°	282	279	272	268	263	300
85°	73	75	75	73	71	80
90°	1	10	18	24	27	8
95°	38	113	1023	464	271	40
105°	130	182	837	1648	1530	137
115°	233	281	672	1449	1704	230
125°	323	379	644	1152	1343	287
135°	379	456	640	966	1115	294
145°	441	505	642	800	880	276
155°	503	542	626	707	738	232
165°	550	565	600	637	647	155
175°	572	572	576	583	581	54
180°	573	573	573	573	573	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1692.0	1688.0	1674.7	1688.0	1686.7
5°	1684.0	1681.3	1668.0	1680.0	1678.7
7.5°	1672.0	1669.3	1654.6	1666.7	1665.3
10°	1654.6	1652.0	1637.3	1648.0	1646.6
12.5°	1633.3	1628.0	1614.6	1622.6	1622.6
15°	1605.3	1601.3	1586.6	1593.3	1593.3
17.5°	1575.9	1569.2	1554.6	1562.6	1555.9
20°	1537.2	1534.6	1517.2	1526.5	1519.9
22.5°	1498.5	1493.2	1477.2	1482.5	1478.5
25°	1457.2	1450.5	1433.1	1435.8	1431.8
27.5°	1409.1	1405.1	1387.8	1389.1	1385.1
30°	1362.4	1358.4	1338.4	1335.7	1331.7
32.5°	1311.7	1305.0	1287.7	1282.4	1274.3
35°	1258.3	1253.0	1234.3	1227.6	1217.0
37.5°	1203.6	1197.0	1179.6	1170.3	1163.6
40°	1147.6	1140.9	1122.2	1110.2	1106.2
42.5°	1087.5	1082.2	1063.5	1052.8	1046.2
45°	1030.2	1024.8	1008.8	992.8	988.8
47.5°	967.4	968.8	948.8	932.7	923.4
50°	907.4	903.4	887.4	870.0	860.7
52.5°	846.0	843.3	826.0	811.3	800.6
55°	784.6	780.6	761.9	749.9	740.6
57.5°	719.2	717.9	701.9	685.9	681.9
60°	657.9	652.5	637.8	624.5	615.2
62.5°	593.8	589.8	577.8	563.1	556.4
65°	529.8	527.1	512.4	500.4	495.1
67.5°	467.0	461.7	451.0	440.4	437.7
70°	408.3	401.7	389.6	381.6	376.3
72.5°	344.3	340.3	333.6	324.3	318.9
75°	281.6	278.9	272.2	268.2	262.9
77.5°	222.8	221.5	217.5	214.8	210.8
80°	168.1	168.1	165.5	164.1	161.5
82.5°	120.1	117.4	117.4	114.8	114.8
85°	73.4	74.7	74.7	73.4	70.7
87.5°	36.0	36.0	34.7	34.7	32.0
90°	1.2	10.4	18.5	24.2	26.6
92.5°	17.3	94.7	460.7	123.0	85.4
95°	38.1	112.6	1023.1	464.2	271.4
97.5°	58.9	121.8	1105.0	838.3	594.7
100°	80.8	139.7	1042.7	1184.8	900.7
102.5°	105.1	160.0	933.0	1478.0	1242.4
105°	130.5	182.4	837.1	1648.4	1530.0
107.5°	154.7	206.1	765.6	1696.2	1703.2
110°	181.3	230.9	718.2	1650.6	1781.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	207.8	255.8	690.5	1555.4	1772.4
115°	233.2	281.2	672.0	1448.6	1704.3
117.5°	256.3	307.2	661.6	1351.6	1601.6
120°	279.4	332.0	654.7	1270.2	1502.2
122.5°	303.7	356.2	648.9	1205.0	1414.5
125°	323.3	378.7	644.3	1152.4	1342.9
127.5°	339.5	400.7	642.0	1107.4	1277.1
130°	354.5	421.4	639.7	1061.8	1225.1
132.5°	366.0	439.9	639.7	1012.7	1173.2
135°	378.7	455.5	639.7	965.9	1115.4
137.5°	394.9	470.0	640.9	916.8	1055.4
140°	408.8	482.1	642.0	871.8	991.9
142.5°	424.9	493.6	643.2	833.1	933.0
145°	441.1	505.2	642.0	799.6	879.9
147.5°	458.4	515.6	639.7	770.8	832.5
150°	473.4	524.8	636.2	747.1	794.4
152.5°	489.6	534.0	631.6	726.9	764.4
155°	503.4	541.6	625.8	707.2	737.8
157.5°	516.1	549.0	620.1	688.8	713.6
160°	528.8	554.8	614.3	670.3	689.3
162.5°	539.2	560.6	607.4	653.6	667.4
165°	549.6	564.7	600.4	636.8	646.6
167.5°	556.6	567.0	593.5	621.2	627.0
170°	563.5	569.8	587.7	606.2	609.7
172.5°	568.1	571.0	580.8	594.1	593.5
175°	571.6	571.6	576.2	583.1	580.8
177.5°	573.9	571.6	572.7	576.2	572.7
180°	572.7	572.7	572.7	572.7	572.7

(END OF REPORT)