

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: P1028039

Luminaire Tested: S125DIP-B610D1270UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028039
REPORT IS A COMBINATION OF REPORTS P1002218 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1270UB35-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

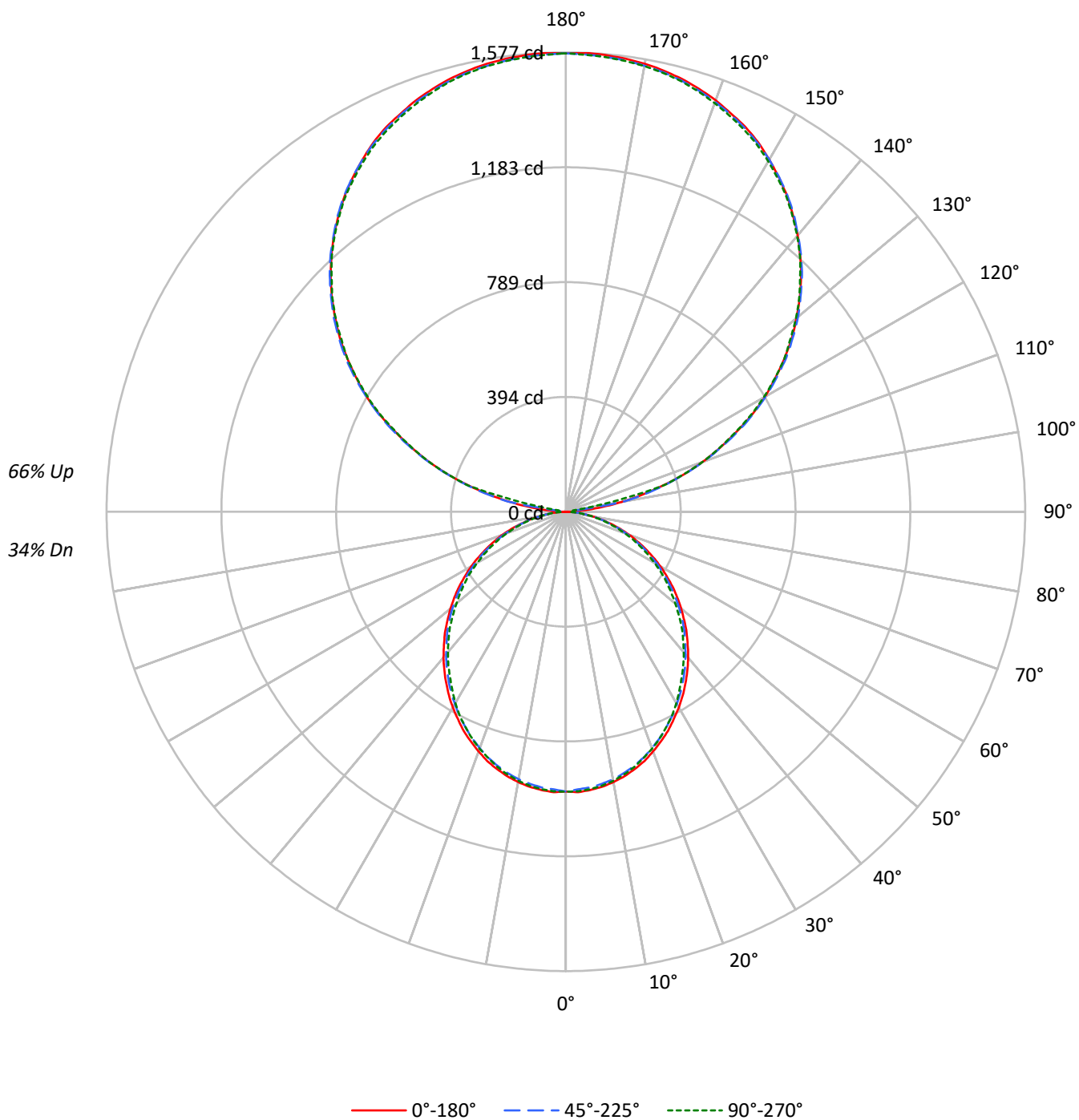
Lumens per Lamp: N/A
Luminaire Lumens: 7336.0 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42
1	94	90	86	83	85	81	78	75	65	63	61	50	49	48	37	36	35
2	86	78	72	67	77	71	66	62	57	53	50	44	42	40	32	31	29
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	27	25
4	71	61	53	47	64	55	49	43	45	40	36	35	31	29	25	23	21
5	65	54	46	40	59	49	42	37	40	35	31	31	27	25	23	21	19
6	60	48	41	35	54	44	37	32	36	31	27	28	24	22	21	18	16
7	56	44	36	30	50	40	33	28	32	27	24	25	22	19	19	16	15
8	51	39	32	27	46	36	29	25	29	24	21	23	20	17	17	15	13
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	14	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6154	6154	6154
5°	6154	6012	6023
10°	6104	5873	5855
15°	6024	5708	5657
20°	5915	5517	5431
25°	5799	5309	5188
30°	5659	5092	4933
35°	5509	4864	4646
40°	5353	4624	4392
45°	5186	4389	4121
50°	5001	4123	3805
55°	4819	3829	3515
60°	4601	3520	3178
65°	4341	3162	2829
70°	4076	2751	2427
75°	3630	2265	1962
80°	3093	1691	1443
85°	2390	1002	796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.2
10°-20°	256.0	3.5
20°-30°	378.0	5.2
30°-40°	441.0	6.0
40°-50°	442.9	6.0
50°-60°	388.8	5.3
60°-70°	289.6	3.9
70°-80°	165.4	2.3
80°-90°	50.1	0.7
90°-100°	53.4	0.7
100°-110°	355.1	4.8
110°-120°	639.5	8.7
120°-130°	820.9	11.2
130°-140°	882.9	12.0
140°-150°	828.6	11.3
150°-160°	670.3	9.1
160°-170°	433.5	5.9
170°-180°	149.5	2.0
0°-30°	724.6	9.9
0°-40°	1165.6	15.9
0°-60°	1997.3	27.2
0°-90°	2502.3	34.1
90°-120°	1048.1	14.3
90°-150°	3580.4	48.8
90°-180°	4834.0	65.9
0°-180°	7336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	959	958	950	957	956	91
15°	914	912	904	907	907	258
25°	830	826	816	818	815	382
35°	717	714	703	699	693	448
45°	587	584	574	565	563	452
55°	447	444	434	427	422	399
65°	302	300	292	285	282	299
75°	160	159	155	153	150	171
85°	42	43	43	42	40	46
90°	1	10	19	24	28	6
95°	66	63	19	24	24	81
105°	343	348	348	348	346	363
115°	644	650	651	646	639	638
125°	916	924	924	919	916	818
135°	1142	1149	1147	1144	1137	880
145°	1324	1326	1326	1327	1320	828
155°	1458	1451	1453	1457	1448	672
165°	1539	1532	1533	1540	1530	435
175°	1574	1567	1568	1577	1567	150
180°	1574	1574	1574	1574	1574	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.5	960.5	960.5	960.5	960.5
2.5°	963.6	961.3	953.7	961.3	960.5
5°	959.0	957.5	949.9	956.7	956.0
7.5°	952.2	950.6	942.3	949.1	948.4
10°	942.3	940.8	932.4	938.5	937.7
12.5°	930.1	927.1	919.5	924.0	924.0
15°	914.2	911.9	903.5	907.3	907.3
17.5°	897.4	893.6	885.3	889.8	886.1
20°	875.4	873.9	864.0	869.3	865.5
22.5°	853.4	850.3	841.2	844.3	842.0
25°	829.8	826.0	816.1	817.7	815.4
27.5°	802.5	800.2	790.3	791.1	788.8
30°	775.9	773.6	762.2	760.7	758.4
32.5°	747.0	743.2	733.3	730.3	725.7
35°	716.6	713.6	702.9	699.1	693.0
37.5°	685.4	681.6	671.8	666.4	662.6
40°	653.5	649.7	639.1	632.2	630.0
42.5°	619.3	616.3	605.6	599.6	595.8
45°	586.6	583.6	574.5	565.4	563.1
47.5°	550.9	551.7	540.3	531.2	525.9
50°	516.7	514.5	505.3	495.5	490.1
52.5°	481.8	480.3	470.4	462.0	455.9
55°	446.8	444.5	433.9	427.1	421.7
57.5°	409.6	408.8	399.7	390.6	388.3
60°	374.6	371.6	363.2	355.6	350.3
62.5°	338.2	335.9	329.0	320.7	316.9
65°	301.7	300.2	291.8	285.0	281.9
67.5°	266.0	262.9	256.8	250.8	249.2
70°	232.5	228.7	221.9	217.3	214.3
72.5°	196.1	193.8	190.0	184.7	181.6
75°	160.3	158.8	155.0	152.7	149.7
77.5°	126.9	126.1	123.9	122.3	120.1
80°	95.7	95.7	94.2	93.5	91.9
82.5°	68.4	66.9	66.9	65.4	65.4
85°	41.8	42.6	42.6	41.8	40.3
87.5°	20.5	20.5	19.8	19.8	18.2
90°	1.2	10.5	18.7	24.5	28.0
92.5°	22.2	11.7	18.7	24.5	25.7
95°	66.5	63.0	18.7	24.5	24.5
97.5°	124.8	131.8	21.0	23.3	24.5
100°	194.8	198.3	203.0	29.2	24.5
102.5°	266.0	270.6	273.0	275.3	177.3
105°	342.9	347.6	347.6	347.6	346.4
107.5°	422.3	422.3	424.6	425.8	421.1
110°	499.2	499.2	501.6	498.1	499.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	571.6	575.1	576.2	571.6	569.2
115°	643.9	649.7	650.9	646.2	639.2
117.5°	719.7	719.7	724.4	717.4	715.0
120°	789.7	788.5	792.0	789.7	783.9
122.5°	851.5	857.4	858.5	856.2	849.2
125°	915.7	923.8	923.8	919.2	915.7
127.5°	977.5	983.3	982.2	979.8	970.5
130°	1033.5	1039.3	1040.5	1037.0	1031.2
132.5°	1089.5	1096.5	1093.0	1093.0	1087.1
135°	1142.0	1149.0	1146.6	1144.3	1137.3
137.5°	1191.0	1198.0	1195.6	1195.6	1189.8
140°	1238.8	1241.1	1240.0	1242.3	1235.3
142.5°	1281.9	1283.1	1285.4	1285.4	1278.5
145°	1323.9	1326.3	1326.3	1327.4	1320.4
147.5°	1361.3	1361.3	1362.4	1363.6	1355.4
150°	1396.3	1393.9	1396.3	1398.6	1389.3
152.5°	1430.1	1424.3	1426.6	1428.9	1420.8
155°	1458.1	1451.1	1453.4	1456.9	1447.6
157.5°	1480.2	1476.8	1476.8	1480.2	1470.9
160°	1503.6	1496.6	1497.7	1502.4	1493.1
162.5°	1522.2	1515.2	1516.4	1523.4	1512.9
165°	1538.6	1531.6	1532.7	1539.7	1530.4
167.5°	1551.4	1544.4	1545.6	1553.7	1543.2
170°	1561.9	1553.7	1554.9	1564.2	1553.7
172.5°	1568.9	1560.7	1563.1	1571.2	1560.7
175°	1573.6	1566.6	1567.7	1577.1	1566.6
177.5°	1577.1	1570.1	1571.2	1579.4	1570.1
180°	1573.6	1573.6	1573.6	1573.6	1573.6

(END OF REPORT)