

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: P1027549

Luminaire Tested: S125DIP-B1270D1090UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027549
REPORT IS A COMBINATION OF REPORTS P1001557 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1090UB35-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

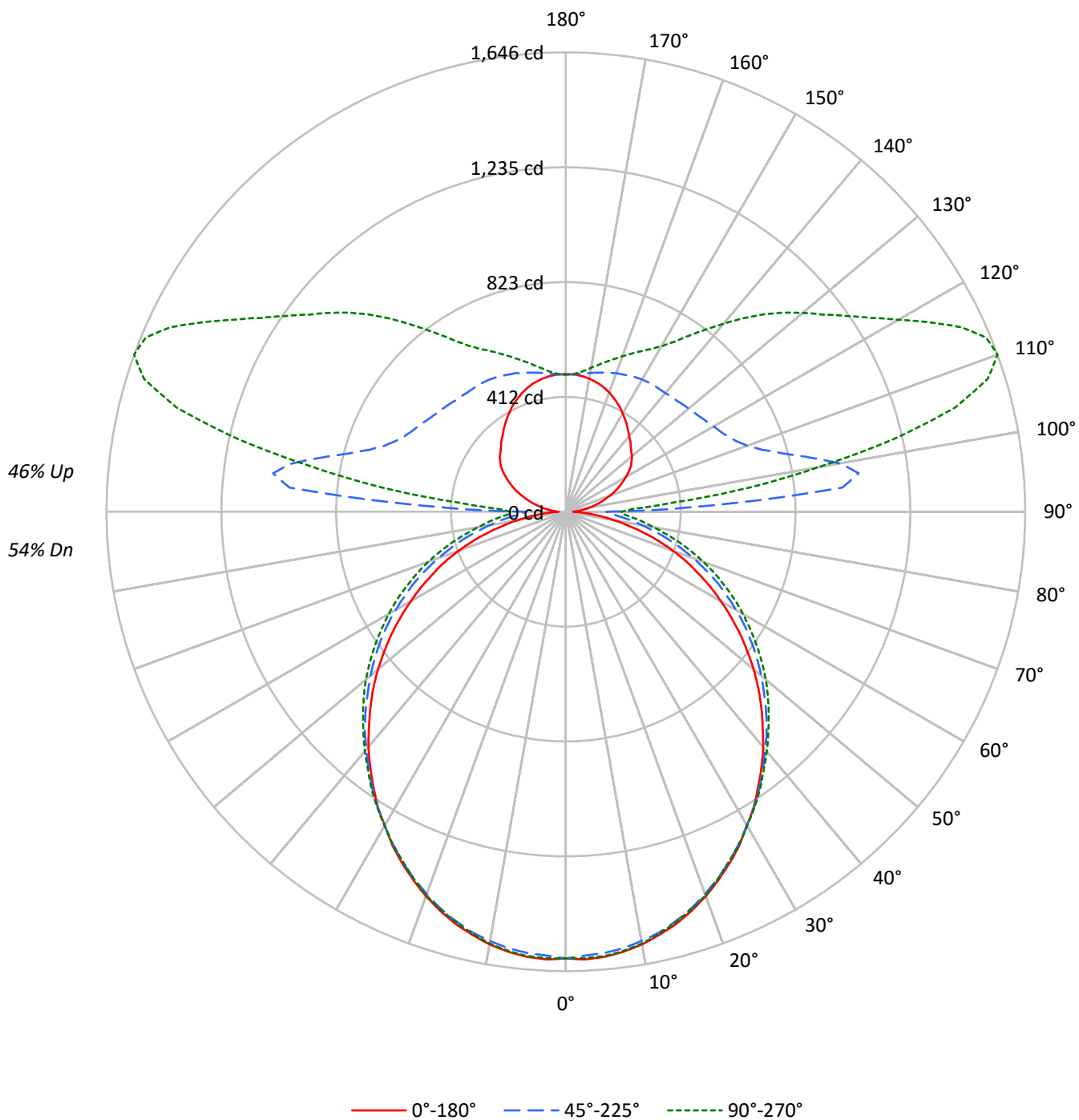
Lumens per Lamp: N/A
Luminaire Lumens: 8666.6 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60
1	98	93	89	85	90	86	83	79	74	71	69	62	60	58	51	50	49
2	89	81	74	69	82	75	69	65	64	60	56	54	51	48	45	42	40
3	81	71	63	57	74	66	59	54	56	51	47	48	44	40	39	37	34
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	25
6	62	50	41	35	57	46	39	34	40	34	30	34	29	26	29	25	22
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	22	20
8	53	41	33	27	49	38	31	26	33	27	23	28	24	20	24	20	18
9	50	37	30	24	46	35	28	23	30	25	21	26	22	18	22	18	16
10	46	34	27	22	43	32	25	21	28	22	19	24	20	16	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10256	10256	10256
5°	10273	10042	10066
10°	10196	9837	9809
15°	10072	9599	9492
20°	9904	9311	9178
25°	9706	9004	8798
30°	9466	8671	8452
35°	9241	8362	8133
40°	9013	8038	7812
45°	8754	7757	7523
50°	8507	7452	7263
55°	8210	7161	6960
60°	7884	6830	6649
65°	7543	6479	6301
70°	7152	6011	5936
75°	6539	5549	5492
80°	5729	4988	5002
85°	4934	4538	4743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	1.7
10°-20°	430.0	5.0
20°-30°	639.5	7.4
30°-40°	757.3	8.7
40°-50°	782.9	9.0
50°-60°	721.2	8.3
60°-70°	583.0	6.7
70°-80°	390.1	4.5
80°-90°	203.6	2.3
90°-100°	484.3	5.6
100°-110°	853.9	9.9
110°-120°	775.4	8.9
120°-130°	613.8	7.1
130°-140°	481.5	5.6
140°-150°	355.8	4.1
150°-160°	248.5	2.9
160°-170°	146.5	1.7
170°-180°	47.6	0.5
0°-30°	1221.0	14.1
0°-40°	1978.3	22.8
0°-60°	3482.4	40.2
0°-90°	4659.2	53.8
90°-120°	2113.6	24.4
90°-150°	3564.7	41.1
90°-180°	4007.0	46.2
0°-180°	8666.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1601	1598	1587	1599	1598	152
15°	1529	1530	1519	1529	1522	431
25°	1389	1394	1384	1390	1383	639
35°	1202	1213	1208	1213	1213	753
45°	990	1008	1015	1026	1028	764
55°	761	786	811	829	835	680
65°	524	560	598	622	628	520
75°	289	330	380	411	419	306
85°	86	138	193	228	240	90
90°	26	84	145	186	199	20
95°	53	158	994	548	393	50
105°	126	196	806	1535	1444	133
115°	210	262	639	1335	1564	207
125°	284	330	590	1052	1224	252
135°	329	393	562	863	1000	255
145°	381	434	552	695	770	238
155°	433	466	538	608	634	199
165°	472	485	516	547	556	133
175°	491	491	495	501	499	47
180°	492	492	492	492	492	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.8	1600.8	1600.8	1600.8	1600.8
2.5°	1605.5	1602.4	1591.4	1602.4	1600.8
5°	1600.8	1597.7	1586.7	1599.2	1597.7
7.5°	1589.8	1588.2	1577.3	1588.2	1586.7
10°	1574.1	1574.1	1561.6	1572.6	1571.0
12.5°	1552.1	1553.7	1544.3	1552.1	1547.4
15°	1528.6	1530.2	1519.2	1528.6	1522.3
17.5°	1498.8	1501.9	1490.9	1498.8	1494.1
20°	1465.8	1469.0	1458.0	1462.7	1462.7
22.5°	1428.2	1434.4	1421.9	1428.2	1423.5
25°	1388.9	1393.6	1384.2	1390.5	1382.7
27.5°	1346.6	1352.8	1341.8	1346.6	1343.4
30°	1297.9	1307.3	1297.9	1301.0	1299.5
32.5°	1254.0	1261.8	1255.5	1258.7	1257.1
35°	1202.2	1213.2	1208.4	1213.2	1213.2
37.5°	1151.9	1161.4	1159.8	1166.1	1164.5
40°	1100.2	1112.7	1111.1	1117.4	1120.6
42.5°	1043.7	1060.9	1065.6	1073.5	1073.5
45°	990.3	1007.6	1015.4	1026.4	1028.0
47.5°	935.4	951.1	963.6	979.3	982.5
50°	878.9	896.1	913.4	930.7	935.4
52.5°	819.2	841.2	863.2	882.0	885.1
55°	761.2	786.3	811.4	828.6	834.9
57.5°	701.5	731.3	759.6	778.4	783.1
60°	641.9	673.3	704.7	728.2	732.9
62.5°	583.8	615.2	649.7	676.4	682.7
65°	524.2	560.3	597.9	621.5	627.8
67.5°	469.3	503.8	541.4	569.7	577.5
70°	408.0	444.1	484.9	514.8	524.2
72.5°	348.4	386.1	431.6	464.5	470.8
75°	288.8	329.6	379.8	411.2	419.0
77.5°	230.7	277.8	324.9	359.4	365.7
80°	177.3	224.4	277.8	312.3	318.6
82.5°	128.7	178.9	233.8	266.8	279.4
85°	86.3	138.1	193.0	227.6	240.1
87.5°	54.9	105.2	158.5	194.6	205.6
90°	26.1	84.2	144.6	185.6	198.6
92.5°	36.9	148.9	518.5	262.6	241.4
95°	53.2	158.0	994.1	548.2	393.4
97.5°	69.4	161.2	1058.3	861.9	663.4
100°	86.8	170.3	996.8	1151.8	917.1
102.5°	106.0	183.0	896.3	1396.2	1203.1
105°	126.3	196.0	806.0	1534.7	1444.0
107.5°	145.6	211.7	738.1	1569.6	1585.0
110°	166.8	228.3	691.2	1522.6	1646.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.7	245.0	661.1	1432.8	1630.4
115°	209.9	262.1	638.9	1334.8	1564.0
117.5°	228.2	279.8	623.7	1243.5	1469.4
120°	248.0	298.0	611.5	1167.2	1376.1
122.5°	267.4	314.0	600.3	1103.3	1292.9
125°	284.2	330.3	590.0	1051.9	1223.5
127.5°	296.5	347.6	581.7	1005.4	1160.7
130°	309.4	365.4	575.0	959.8	1108.1
132.5°	317.8	381.3	568.7	911.4	1055.6
135°	328.7	393.2	562.5	863.4	999.7
137.5°	342.6	405.6	558.7	814.8	940.3
140°	353.0	416.0	555.0	769.8	879.4
142.5°	366.9	424.4	552.9	730.3	822.5
145°	380.8	434.3	551.9	695.2	770.5
147.5°	394.1	443.2	549.9	665.7	722.0
150°	407.0	451.2	546.9	642.2	684.5
152.5°	420.9	459.1	543.0	624.8	657.1
155°	432.8	465.6	538.0	608.0	634.3
157.5°	443.7	472.0	533.0	592.1	613.5
160°	454.6	477.0	528.1	576.2	592.6
162.5°	463.6	482.0	522.1	561.8	573.7
165°	472.5	485.4	516.2	547.4	555.9
167.5°	478.5	487.4	510.2	534.0	539.0
170°	484.4	489.9	505.3	521.1	524.1
172.5°	488.4	490.9	499.3	510.7	510.2
175°	491.4	491.4	495.3	501.3	499.3
177.5°	493.3	491.4	492.4	495.3	492.4
180°	492.4	492.4	492.4	492.4	492.4

(END OF REPORT)