

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: P1027370

Luminaire Tested: S125DIP-B1090D1270UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027370
REPORT IS A COMBINATION OF REPORTS P1001315 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

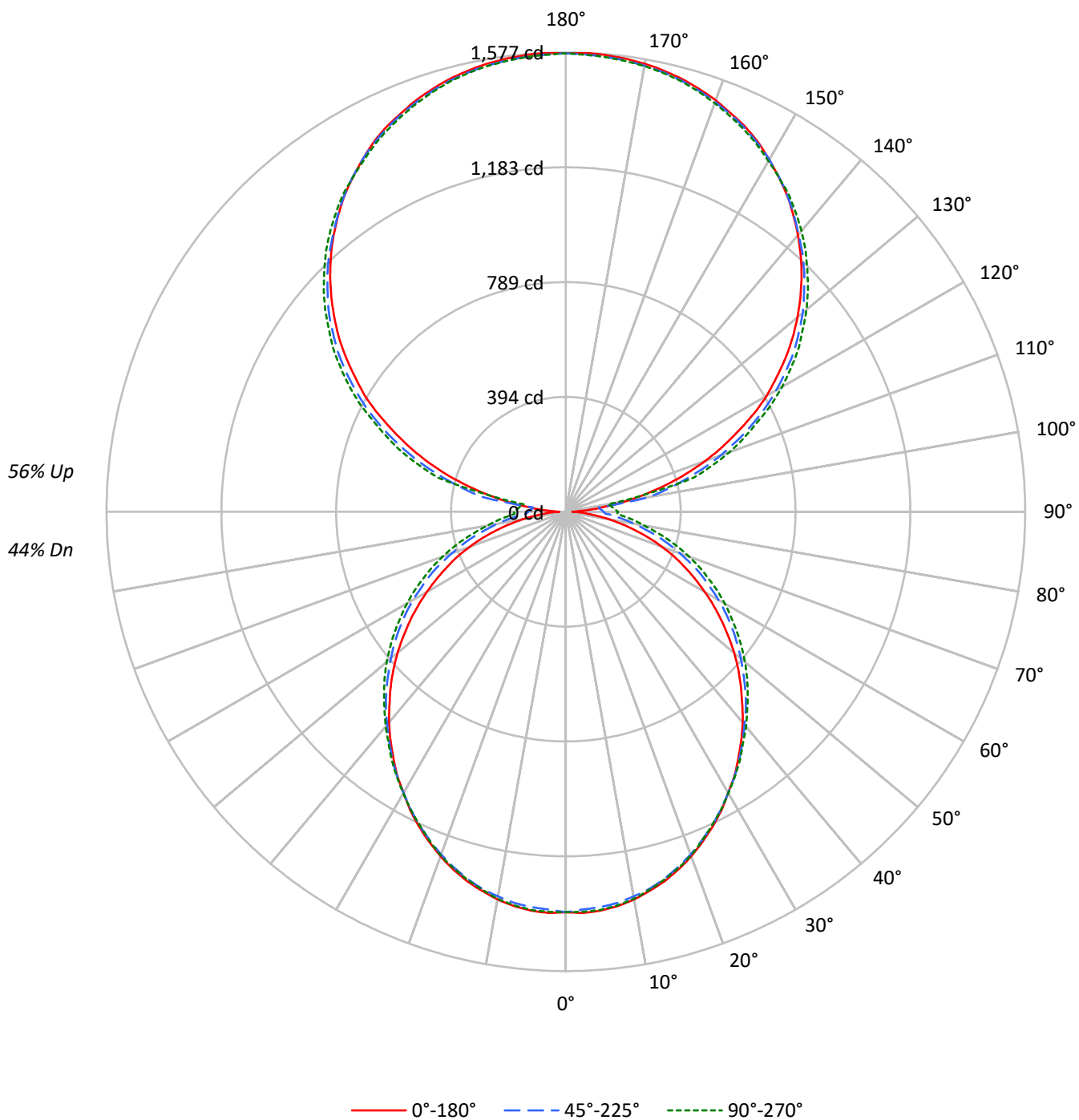
Lumens per Lamp: N/A
Luminaire Lumens: 9094.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	91	87	83	87	84	80	77	69	67	64	56	54	52	44	43	41
2	87	79	73	68	79	73	67	62	60	56	53	49	46	43	38	36	34
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	44	47	41	37	38	34	31	30	27	25
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	21
6	61	49	41	35	55	45	38	32	38	32	28	31	26	23	24	21	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	22	19	17
8	52	40	32	27	48	37	30	25	31	25	22	25	21	18	20	17	15
9	49	36	29	24	44	34	27	22	28	23	19	23	19	16	19	16	13
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8807	8807	8807
5°	8821	8622	8643
10°	8755	8446	8422
15°	8648	8241	8150
20°	8504	7994	7880
25°	8334	7731	7554
30°	8127	7445	7257
35°	7935	7180	6984
40°	7738	6902	6708
45°	7517	6661	6460
50°	7304	6399	6236
55°	7049	6149	5976
60°	6770	5864	5709
65°	6477	5564	5409
70°	6142	5162	5097
75°	5615	4765	4716
80°	4922	4282	4295
85°	4237	3899	4073

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.4
10°-20°	369.2	4.1
20°-30°	549.1	6.0
30°-40°	650.3	7.2
40°-50°	672.3	7.4
50°-60°	619.3	6.8
60°-70°	500.6	5.5
70°-80°	335.0	3.7
80°-90°	175.5	1.9
90°-100°	150.9	1.7
100°-110°	427.0	4.7
110°-120°	687.7	7.6
120°-130°	848.1	9.3
130°-140°	894.8	9.8
140°-150°	831.0	9.1
150°-160°	670.3	7.4
160°-170°	433.5	4.8
170°-180°	149.5	1.6
0°-30°	1048.4	11.5
0°-40°	1698.6	18.7
0°-60°	2990.2	32.9
0°-90°	4001.3	44.0
90°-120°	1265.6	13.9
90°-150°	3839.5	42.2
90°-180°	5093.0	56.0
0°-180°	9094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1374	1372	1362	1373	1372	130
15°	1312	1314	1304	1312	1307	370
25°	1193	1197	1188	1194	1187	549
35°	1032	1042	1038	1042	1042	646
45°	850	865	872	881	883	656
55°	654	675	697	712	717	584
65°	450	481	513	534	539	447
75°	248	283	326	353	360	263
85°	74	119	166	195	206	77
90°	23	75	129	166	179	18
95°	84	116	117	152	162	95
105°	355	381	422	449	457	376
115°	652	667	704	723	724	646
125°	921	928	955	972	975	822
135°	1145	1150	1157	1173	1172	883
145°	1325	1326	1326	1334	1332	829
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°	1374.5	1374.5	1374.5	1374.5	1374.5
2.5°	1378.6	1375.9	1366.4	1375.9	1374.5
5°	1374.5	1371.8	1362.4	1373.2	1371.8
7.5°	1365.1	1363.7	1354.3	1363.7	1362.4
10°	1351.6	1351.6	1340.8	1350.3	1348.9
12.5°	1332.7	1334.1	1326.0	1332.7	1328.7
15°	1312.5	1313.9	1304.4	1312.5	1307.1
17.5°	1286.9	1289.6	1280.2	1286.9	1282.9
20°	1258.6	1261.3	1251.9	1255.9	1255.9
22.5°	1226.3	1231.7	1220.9	1226.3	1222.2
25°	1192.6	1196.6	1188.5	1193.9	1187.2
27.5°	1156.2	1161.6	1152.2	1156.2	1153.5
30°	1114.4	1122.5	1114.4	1117.1	1115.8
32.5°	1076.7	1083.4	1078.0	1080.7	1079.4
35°	1032.2	1041.7	1037.6	1041.7	1041.7
37.5°	989.1	997.2	995.8	1001.2	999.9
40°	944.6	955.4	954.1	959.5	962.2
42.5°	896.1	911.0	915.0	921.7	921.7
45°	850.3	865.1	871.9	881.3	882.7
47.5°	803.1	816.6	827.4	840.9	843.6
50°	754.6	769.5	784.3	799.1	803.1
52.5°	703.4	722.3	741.2	757.3	760.0
55°	653.6	675.1	696.7	711.5	716.9
57.5°	602.4	628.0	652.2	668.4	672.4
60°	551.2	578.1	605.1	625.3	629.3
62.5°	501.3	528.2	557.9	580.8	586.2
65°	450.1	481.1	513.4	533.6	539.0
67.5°	402.9	432.6	464.9	489.2	495.9
70°	350.4	381.4	416.4	442.0	450.1
72.5°	299.2	331.5	370.6	398.9	404.3
75°	248.0	283.0	326.1	353.1	359.8
77.5°	198.1	238.5	278.9	308.6	314.0
80°	152.3	192.7	238.5	268.2	273.6
82.5°	110.5	153.6	200.8	229.1	239.9
85°	74.1	118.6	165.8	195.4	206.2
87.5°	47.2	90.3	136.1	167.1	176.5
90°	22.8	75.2	129.2	166.0	178.9
92.5°	41.1	69.6	123.8	159.3	169.9
95°	84.0	115.6	117.1	152.5	162.0
97.5°	141.0	180.3	114.0	144.6	155.2
100°	209.6	241.4	289.2	143.7	147.1
102.5°	279.5	309.7	353.9	383.1	293.2
105°	355.0	381.3	421.7	448.7	456.9
107.5°	433.1	451.9	493.3	521.5	524.9
110°	508.6	524.8	564.9	587.0	597.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	581.0	596.7	634.1	653.8	660.8
115°	652.0	667.2	703.5	723.0	724.1
117.5°	726.4	733.2	771.6	787.5	794.5
120°	796.4	799.3	833.8	854.4	856.7
122.5°	856.9	864.1	894.9	914.1	915.2
125°	921.1	927.8	954.8	971.8	975.0
127.5°	981.5	986.0	1007.8	1025.6	1024.4
130°	1037.5	1042.0	1062.1	1077.4	1078.4
132.5°	1092.2	1099.2	1109.2	1128.0	1127.5
135°	1144.7	1150.3	1157.4	1172.6	1172.3
137.5°	1193.7	1199.3	1202.3	1218.5	1218.1
140°	1240.1	1242.4	1242.7	1259.8	1258.2
142.5°	1283.2	1283.1	1285.4	1297.5	1296.0
145°	1325.2	1326.3	1326.3	1334.1	1332.5
147.5°	1361.3	1361.3	1362.4	1366.3	1360.8
150°	1396.3	1393.9	1396.3	1398.6	1390.6
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)