

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: P1027326

Luminaire Tested: S125DIP-B1090D1090UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027326
REPORT IS A COMBINATION OF REPORTS P1001256 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1090UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

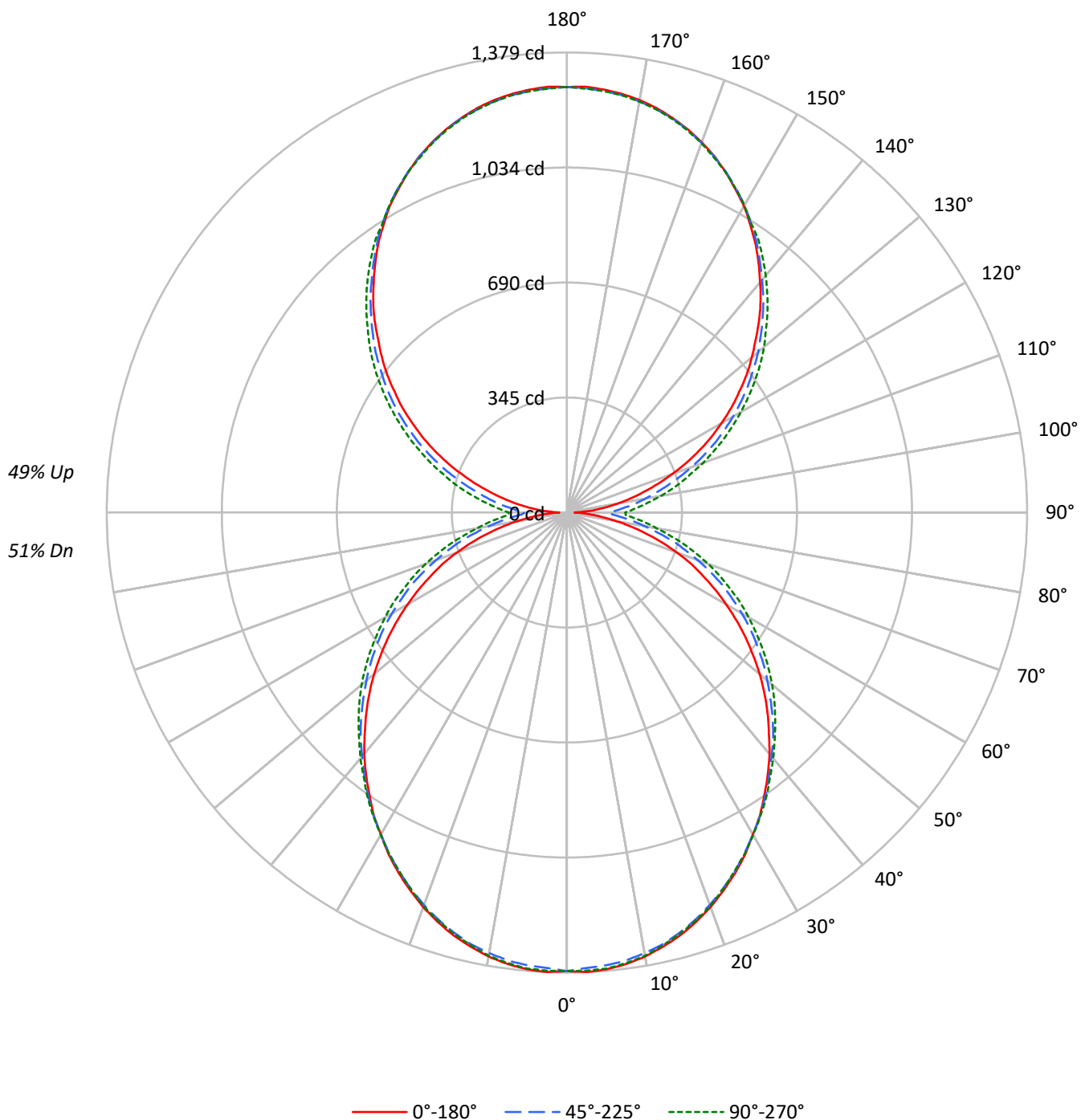
Lumens per Lamp: N/A
Luminaire Lumens: 7820.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	70	70	70	57	57	57
1	97	93	88	85	90	86	82	79	72	70	67	60	59	57	49	48	47
2	88	80	74	69	81	74	69	64	63	59	55	53	50	47	43	41	39
3	80	70	63	57	74	65	59	53	55	50	46	46	42	39	38	35	33
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	34	31	28
5	67	55	47	41	62	51	44	38	44	38	34	37	32	29	30	27	24
6	62	50	41	35	57	46	39	33	39	34	29	33	29	25	27	24	21
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	22	19
8	53	41	33	27	49	38	31	26	33	27	23	28	23	20	23	19	17
9	49	37	29	24	46	35	28	23	30	24	20	25	21	18	21	18	15
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	20	16	14

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	1.7
10°-20°	369.2	4.7
20°-30°	549.1	7.0
30°-40°	650.3	8.3
40°-50°	672.3	8.6
50°-60°	619.3	7.9
60°-70°	500.6	6.4
70°-80°	335.0	4.3
80°-90°	175.1	2.2
90°-100°	182.4	2.3
100°-110°	323.9	4.1
110°-120°	475.5	6.1
120°-130°	589.9	7.5
130°-140°	642.4	8.2
140°-150°	620.3	7.9
150°-160°	519.1	6.6
160°-170°	345.0	4.4
170°-180°	120.7	1.5
0°-30°	1048.4	13.4
0°-40°	1698.6	21.7
0°-60°	2990.2	38.2
0°-90°	4000.9	51.2
90°-120°	981.7	12.6
90°-150°	2834.2	36.2
90°-180°	3819.0	48.8
0°-180°	7820.0	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	74	126	162	175	19
95°	82	119	175	211	223	81
105°	238	265	311	344	357	254
115°	436	449	486	510	517	431
125°	630	634	662	682	688	564
135°	815	819	830	847	850	628
145°	985	988	991	997	1000	616
155°	1126	1126	1127	1131	1126	519
165°	1224	1222	1223	1227	1221	345
175°	1273	1269	1269	1275	1268	121
180°	1276	1276	1276	1276	1276	

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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°	22.6	73.6	126.4	162.3	174.7
92.5°	48.7	92.6	148.8	185.4	196.8
95°	82.0	119.1	174.8	211.4	222.9
97.5°	115.5	148.8	207.2	241.4	251.8
100°	153.8	182.1	238.1	275.3	285.4
102.5°	195.2	225.7	272.5	309.3	320.4
105°	238.4	265.0	311.3	344.3	356.7
107.5°	285.8	309.5	353.6	383.6	391.7
110°	335.0	356.2	396.8	425.4	433.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	386.6	400.8	441.1	466.4	473.8
115°	435.9	449.3	486.4	509.6	516.7
117.5°	486.2	493.9	529.6	553.5	559.0
120°	533.8	542.9	574.9	597.8	601.9
122.5°	584.1	586.4	619.1	639.6	644.7
125°	629.8	634.3	662.3	681.9	687.7
127.5°	679.0	680.7	704.6	723.8	729.9
130°	723.7	727.3	748.2	766.0	770.9
132.5°	767.0	776.0	788.5	806.3	808.7
135°	814.7	819.3	829.7	847.2	850.0
137.5°	859.4	863.9	871.3	888.5	888.9
140°	900.7	905.6	910.0	926.8	927.2
142.5°	943.3	946.0	950.0	963.1	963.5
145°	985.0	987.7	990.7	997.4	999.8
147.5°	1022.4	1025.4	1027.4	1033.1	1027.8
150°	1061.2	1060.2	1064.1	1064.1	1063.4
152.5°	1092.9	1094.9	1095.9	1098.9	1094.9
155°	1125.7	1125.7	1126.7	1130.6	1125.7
157.5°	1155.5	1153.5	1154.5	1158.4	1151.5
160°	1181.3	1178.3	1179.3	1183.3	1178.3
162.5°	1204.1	1202.1	1202.1	1207.1	1201.1
165°	1224.0	1222.0	1223.0	1226.9	1221.0
167.5°	1241.8	1237.8	1237.8	1243.8	1237.8
170°	1255.7	1251.7	1251.7	1257.7	1250.8
172.5°	1265.6	1261.7	1261.7	1267.6	1261.7
175°	1272.6	1268.6	1268.6	1274.6	1267.6
177.5°	1277.6	1273.6	1272.6	1278.5	1271.6
180°	1275.6	1275.6	1275.6	1275.6	1275.6

(END OF REPORT)