

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: P1027507

Luminaire Tested: S125DIP-B1090D850UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027507
REPORT IS A COMBINATION OF REPORTS P1001497 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D850UB35-4F0-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

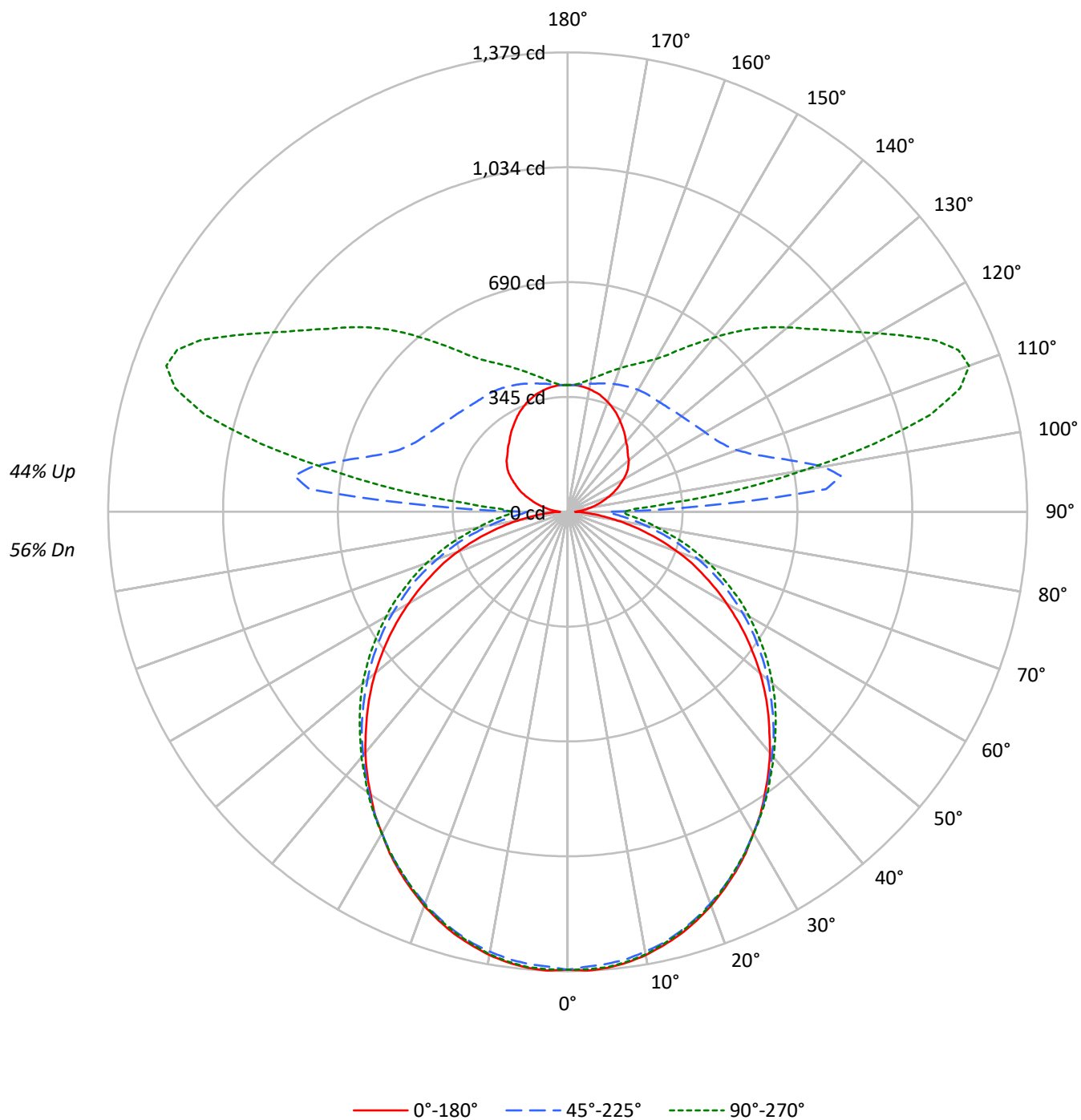
Lumens per Lamp: N/A
Luminaire Lumens: 7122.8 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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

TEST NUMBER: P1027507

CATALOG NUMBER: S125DIP-B1090D850UB35-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1027507

CATALOG NUMBER: S125DIP-B1090D850UB35-4F0-XX-W2A-D4

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	98	94	89	86	91	87	83	80	75	72	70	64	62	60	53	52	51
2	89	81	75	69	83	76	70	65	65	61	57	55	52	49	46	44	42
3	81	71	63	57	75	66	59	54	57	52	48	49	45	41	41	38	35
4	74	63	55	48	69	59	51	46	51	45	40	43	39	35	36	33	30
5	68	56	47	41	63	52	45	39	45	39	35	39	34	30	33	29	26
6	63	50	42	36	58	47	39	34	41	35	30	35	30	27	30	26	23
7	58	45	37	31	54	42	35	30	37	31	27	32	27	23	27	23	20
8	54	41	33	28	50	39	31	26	34	28	24	29	24	21	25	21	18
9	50	37	30	25	46	35	28	23	31	25	21	27	22	19	23	19	16
10	47	34	27	22	43	32	26	21	28	23	19	25	20	17	21	18	15

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

TEST NUMBER: P1027507

CATALOG NUMBER: S125DIP-B1090D850UB35-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.8
10°-20°	369.2	5.2
20°-30°	549.1	7.7
30°-40°	650.3	9.1
40°-50°	672.3	9.4
50°-60°	619.3	8.7
60°-70°	500.6	7.0
70°-80°	335.0	4.7
80°-90°	174.7	2.5
90°-100°	384.0	5.4
100°-110°	667.0	9.4
110°-120°	604.0	8.5
120°-130°	477.0	6.7
130°-140°	373.3	5.2
140°-150°	275.1	3.9
150°-160°	192.1	2.7
160°-170°	113.2	1.6
170°-180°	36.8	0.5
0°-30°	1048.4	14.7
0°-40°	1698.6	23.8
0°-60°	2990.2	42.0
0°-90°	4000.4	56.2
90°-120°	1655.0	23.2
90°-150°	2780.3	39.0
90°-180°	3122.0	43.8
0°-180°	7122.8	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°	22	72	123	158	168	17
95°	43	127	778	436	318	40
105°	99	155	630	1196	1127	104
115°	163	204	499	1039	1217	161
125°	220	256	459	818	951	195
135°	254	304	436	670	776	197
145°	294	336	426	538	597	184
155°	334	360	416	470	490	154
165°	365	375	399	423	430	103
175°	380	380	383	387	386	36
180°	380	380	380	380	380	

TEST NUMBER: P1027507

CATALOG NUMBER: S125DIP-B1090D850UB35-4F0-XX-W2A-D4

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°	22.4	71.6	122.8	157.6	168.5
92.5°	30.4	120.8	411.1	216.5	201.0
95°	42.8	127.4	778.0	436.4	317.7
97.5°	55.3	129.4	827.0	678.2	525.7
100°	68.5	135.9	778.8	901.4	720.9
102.5°	83.3	145.4	700.7	1089.6	941.2
105°	98.8	154.9	630.2	1196.0	1126.8
107.5°	113.6	166.5	577.2	1222.4	1235.2
110°	129.8	179.0	540.4	1185.4	1281.9

TEST NUMBER: P1027507

CATALOG NUMBER: S125DIP-B1090D850UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.5	191.5	516.6	1115.4	1269.0
115°	163.0	204.3	499.0	1039.0	1217.0
117.5°	177.0	217.5	486.7	967.9	1143.4
120°	192.3	231.3	476.7	908.4	1070.7
122.5°	207.1	243.3	467.5	858.2	1005.6
125°	220.2	255.6	459.0	818.1	951.3
127.5°	229.5	268.8	452.1	781.3	902.2
130°	239.5	282.6	446.5	745.6	861.0
132.5°	245.8	295.0	441.1	707.7	819.7
135°	254.3	303.8	435.7	669.9	775.9
137.5°	265.0	313.4	432.4	631.9	729.4
140°	272.8	321.6	429.2	596.6	681.8
142.5°	283.6	327.9	427.2	565.5	637.3
145°	294.3	335.5	426.5	537.8	596.6
147.5°	304.5	342.4	424.9	514.6	558.4
150°	314.5	348.6	422.6	496.3	529.0
152.5°	325.2	354.8	419.6	482.8	507.8
155°	334.4	359.8	415.7	469.8	490.1
157.5°	342.9	364.7	411.9	457.6	474.0
160°	351.3	368.6	408.1	445.2	457.9
162.5°	358.2	372.4	403.5	434.1	443.3
165°	365.1	375.1	398.8	423.0	429.5
167.5°	369.7	376.6	394.2	412.6	416.5
170°	374.3	378.5	390.4	402.7	405.0
172.5°	377.4	379.3	385.8	394.6	394.2
175°	379.7	379.7	382.7	387.3	385.8
177.5°	381.2	379.7	380.4	382.7	380.4
180°	380.4	380.4	380.4	380.4	380.4

(END OF REPORT)