

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: P1027506

Luminaire Tested: S125DIP-B1090D850UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027506
REPORT IS A COMBINATION OF REPORTS P1001496 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-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

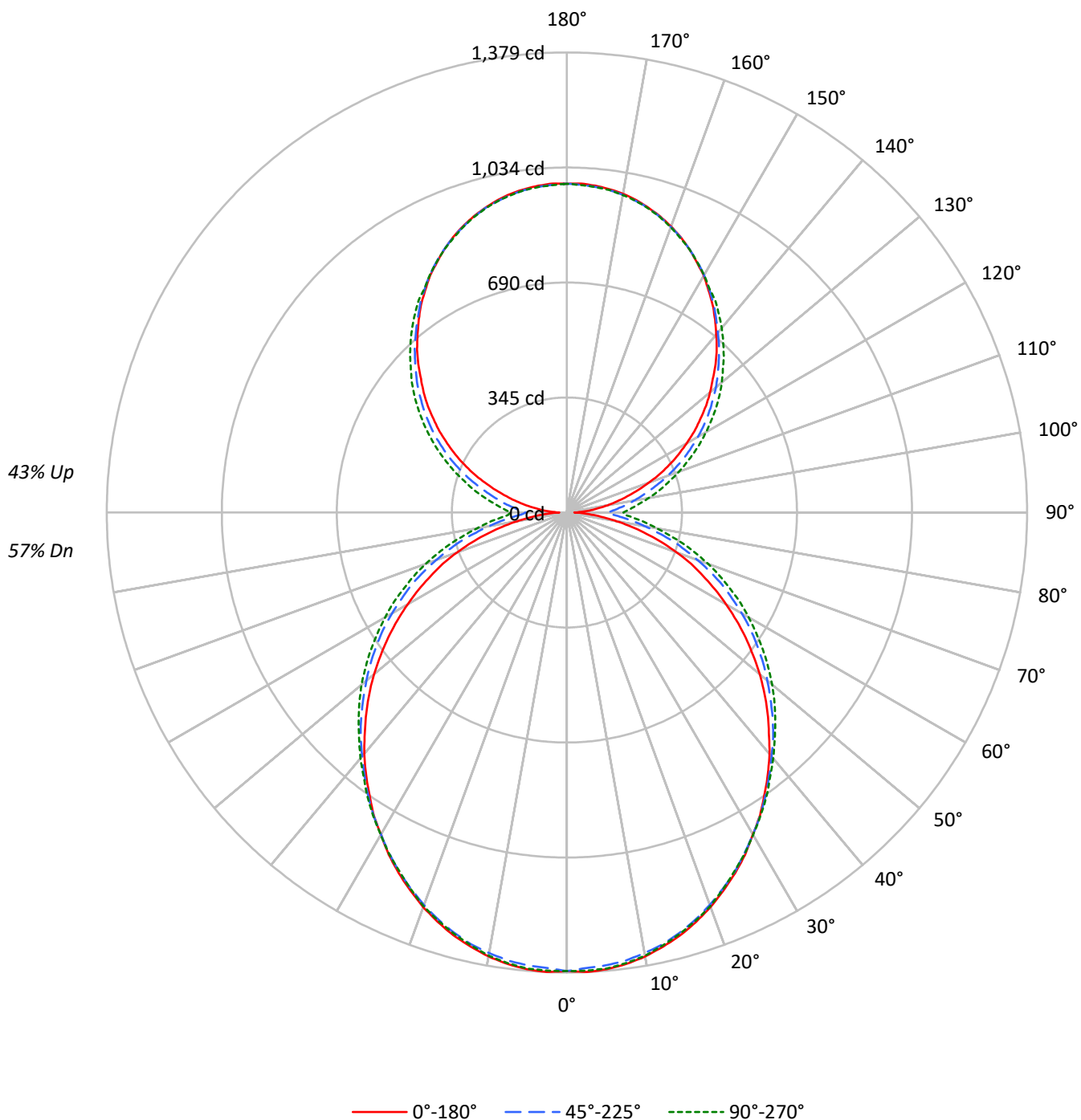
Lumens per Lamp: N/A
Luminaire Lumens: 7010.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

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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	109	109	109	109		101	101	101	101		87	87	87		74	74	74		63	63	63
1	99	94	90	86		91	87	84	80		75	73	70		64	62	60		54	53	51
2	89	81	75	69		83	76	70	65		65	61	57		56	53	50		47	45	42
3	81	71	64	57		75	67	60	54		58	52	48		49	45	42		41	38	36
4	74	63	55	48		69	59	51	46		51	45	41		44	39	36		37	33	31
5	68	56	48	41		63	52	45	39		46	39	35		39	34	31		33	29	27
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	24		27	24	21
8	54	41	33	28		50	39	31	26		34	28	24		29	25	21		25	21	18
9	50	38	30	25		47	35	28	23		31	25	21		27	22	19		23	19	17
10	47	34	27	22		44	32	26	21		29	23	19		25	20	17		22	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.9
10°-20°	369.2	5.3
20°-30°	549.1	7.8
30°-40°	650.3	9.3
40°-50°	672.3	9.6
50°-60°	619.3	8.8
60°-70°	500.6	7.1
70°-80°	335.0	4.8
80°-90°	174.7	2.5
90°-100°	163.1	2.3
100°-110°	266.6	3.8
110°-120°	378.3	5.4
120°-130°	461.9	6.6
130°-140°	499.0	7.1
140°-150°	479.8	6.8
150°-160°	401.0	5.7
160°-170°	266.6	3.8
170°-180°	93.3	1.3
0°-30°	1048.4	15.0
0°-40°	1698.6	24.2
0°-60°	2990.2	42.7
0°-90°	4000.5	57.1
90°-120°	807.9	11.5
90°-150°	2248.6	32.1
90°-180°	3010.0	42.9
0°-180°	7010.0	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°	22	72	123	158	169	18
95°	67	104	158	192	204	66
105°	187	212	257	289	301	199
115°	339	351	388	411	418	335
125°	488	491	519	539	545	437
135°	630	633	644	661	665	486
145°	761	763	765	772	775	476
155°	870	870	870	874	870	401
165°	946	944	945	948	943	267
175°	983	980	980	985	979	93
180°	986	986	986	986	986	

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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°	22.4	71.6	122.8	157.6	169.3
92.5°	41.9	84.7	138.8	173.9	184.8
95°	67.4	104.0	157.5	192.4	203.5
97.5°	92.9	126.0	181.2	214.1	224.3
100°	122.2	150.5	203.5	238.7	248.4
102.5°	153.8	183.3	228.9	263.5	273.9
105°	187.0	212.4	257.4	289.0	300.7
107.5°	223.2	245.9	288.8	318.1	326.2
110°	261.0	281.0	321.0	348.9	357.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	300.8	314.6	353.9	379.0	386.9
115°	338.6	351.1	387.7	411.2	418.5
117.5°	377.1	384.7	419.9	443.6	449.9
120°	413.9	421.9	453.6	476.5	481.6
122.5°	452.5	454.6	486.6	507.3	513.1
125°	487.8	491.0	518.8	538.8	544.8
127.5°	525.5	526.5	550.2	569.6	576.2
130°	560.0	562.6	583.0	601.0	606.3
132.5°	593.2	600.1	612.9	630.9	634.0
135°	630.0	633.3	643.5	661.0	664.6
137.5°	664.6	667.8	674.7	691.7	693.2
140°	696.1	700.0	703.7	720.0	721.6
142.5°	729.1	730.9	734.0	746.8	748.4
145°	761.3	763.1	765.4	772.1	775.2
147.5°	789.9	792.2	793.8	798.8	795.3
150°	819.8	819.1	822.1	822.1	821.9
152.5°	844.4	845.9	846.7	849.0	845.9
155°	869.7	869.7	870.5	873.5	869.7
157.5°	892.7	891.2	891.9	895.0	889.6
160°	912.6	910.3	911.1	914.2	910.3
162.5°	930.3	928.8	928.8	932.6	928.0
165°	945.6	944.1	944.9	947.9	943.3
167.5°	959.4	956.4	956.4	961.0	956.4
170°	970.2	967.1	967.1	971.7	966.3
172.5°	977.8	974.8	974.8	979.4	974.8
175°	983.2	980.1	980.1	984.7	979.4
177.5°	987.0	984.0	983.2	987.8	982.4
180°	985.5	985.5	985.5	985.5	985.5

(END OF REPORT)