

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: P1028226

Luminaire Tested: S125DIP-B850D1090UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028226
REPORT IS A COMBINATION OF REPORTS P1002468 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1090UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

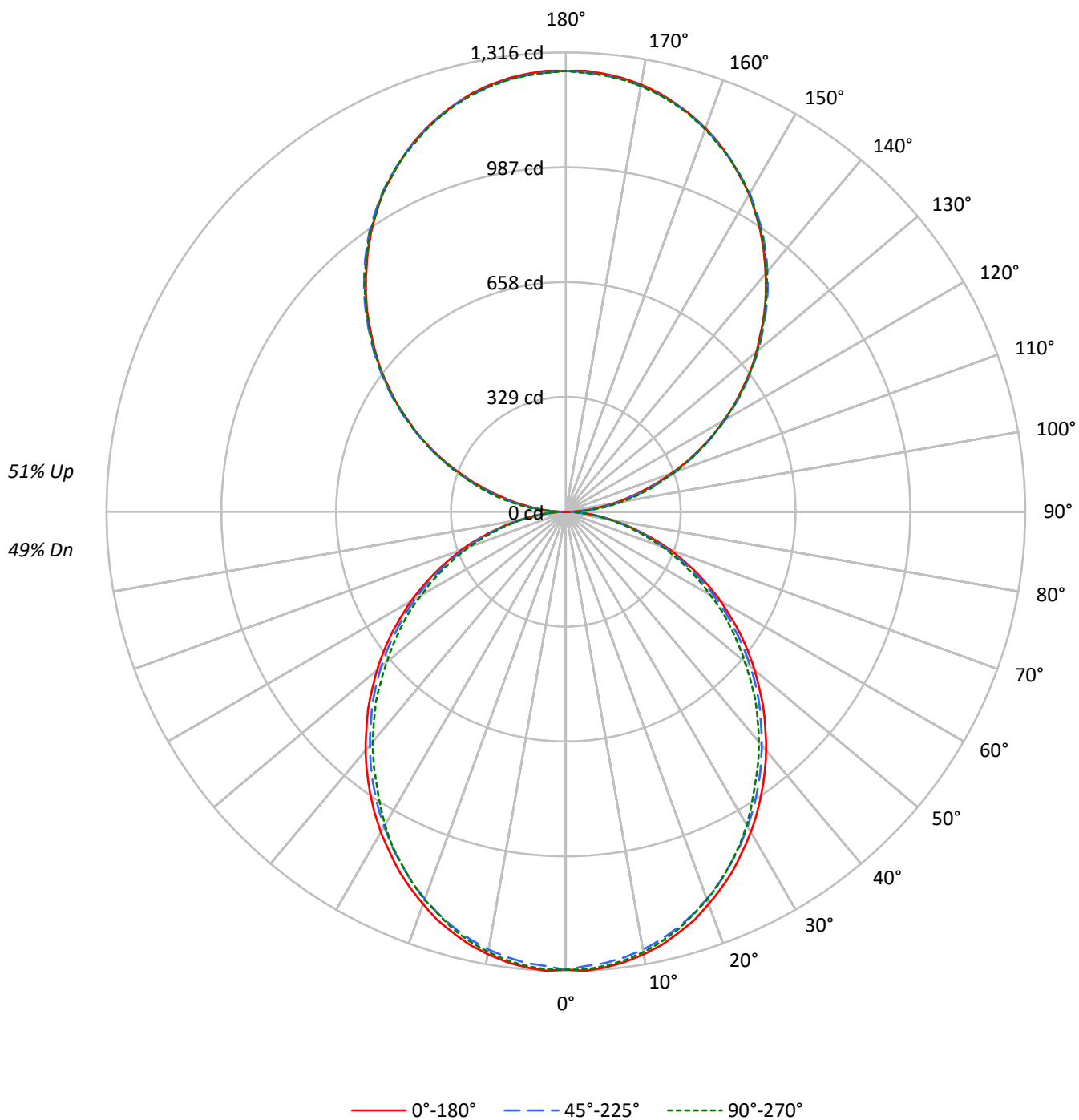
Lumens per Lamp: N/A
Luminaire Lumens: 6941.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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		83	83	83		69	69	69		55	55	55
1	98	93	89	86	90	86	83	80		73	70	68		60	59	57		49	48	47
2	89	81	75	70	82	75	70	65		64	60	56		53	50	48		43	41	39
3	81	71	64	58	74	66	60	55		56	51	47		47	43	40		38	36	33
4	74	63	55	49	68	59	52	46		50	44	40		42	38	34		34	31	29
5	68	56	48	42	62	52	45	40		45	39	35		37	33	30		31	28	25
6	63	51	42	37	57	47	40	34		40	34	30		34	29	26		28	25	22
7	58	46	38	32	53	42	35	30		36	31	27		31	26	23		25	22	20
8	54	41	34	28	49	39	32	27		33	28	24		28	24	21		23	20	18
9	50	38	30	25	46	35	28	24		30	25	21		26	22	18		21	18	16
10	47	35	27	23	43	32	26	21		28	23	19		24	20	17		20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8407	8407	8407
5°	8407	8211	8227
10°	8338	8023	7998
15°	8228	7798	7728
20°	8080	7537	7418
25°	7921	7252	7087
30°	7729	6955	6738
35°	7525	6645	6347
40°	7313	6316	5999
45°	7084	5996	5629
50°	6833	5632	5198
55°	6583	5231	4802
60°	6285	4809	4341
65°	5930	4320	3865
70°	5567	3757	3315
75°	4959	3095	2681
80°	4227	2311	1972
85°	3265	1366	1086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7084 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	1.8
10°-20°	349.7	5.0
20°-30°	516.3	7.4
30°-40°	602.4	8.7
40°-50°	605.0	8.7
50°-60°	531.1	7.7
60°-70°	395.6	5.7
70°-80°	225.9	3.3
80°-90°	67.2	1.0
90°-100°	84.0	1.2
100°-110°	249.4	3.6
110°-120°	423.0	6.1
120°-130°	556.9	8.0
130°-140°	624.1	9.0
140°-150°	611.7	8.8
150°-160°	513.8	7.4
160°-170°	341.6	4.9
170°-180°	119.5	1.7
0°-30°	989.8	14.3
0°-40°	1592.2	22.9
0°-60°	2728.3	39.3
0°-90°	3416.9	49.2
90°-120°	756.4	10.9
90°-150°	2549.1	36.7
90°-180°	3524.0	50.8
0°-180°	6941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1310	1308	1298	1307	1306	124
15°	1249	1246	1234	1239	1239	352
25°	1134	1128	1115	1117	1114	522
35°	979	975	960	955	947	612
45°	801	797	785	772	769	617
55°	610	607	593	583	576	545
65°	412	410	399	389	385	409
75°	219	217	212	209	204	233
85°	57	58	58	57	55	63
90°	1	9	16	21	24	8
95°	64	66	76	82	84	67
105°	224	229	235	241	244	239
115°	424	427	429	428	427	419
125°	618	624	625	623	622	554
135°	804	810	811	811	807	620
145°	974	978	981	981	978	609
155°	1114	1114	1115	1119	1114	513
165°	1212	1210	1211	1214	1209	342
175°	1260	1256	1256	1262	1255	120
180°	1263	1263	1263	1263	1263	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.1	1312.1	1312.1	1312.1	1312.1
2.5°	1316.2	1313.1	1302.7	1313.1	1312.1
5°	1310.0	1307.9	1297.5	1306.9	1305.8
7.5°	1300.7	1298.6	1287.2	1296.5	1295.5
10°	1287.2	1285.1	1273.7	1282.0	1280.9
12.5°	1270.6	1266.4	1256.0	1262.2	1262.2
15°	1248.8	1245.6	1234.2	1239.4	1239.4
17.5°	1225.9	1220.7	1209.3	1215.5	1210.3
20°	1195.8	1193.7	1180.2	1187.5	1182.3
22.5°	1165.7	1161.6	1149.1	1153.3	1150.1
25°	1133.5	1128.3	1114.8	1116.9	1113.8
27.5°	1096.2	1093.0	1079.6	1080.6	1077.5
30°	1059.8	1056.7	1041.1	1039.1	1036.0
32.5°	1020.4	1015.2	1001.7	997.5	991.3
35°	978.9	974.7	960.2	955.0	946.7
37.5°	936.3	931.1	917.6	910.4	905.2
40°	892.7	887.5	873.0	863.6	860.5
42.5°	846.0	841.8	827.3	819.0	813.8
45°	801.4	797.2	784.8	772.3	769.2
47.5°	752.6	753.6	738.0	725.6	718.3
50°	705.9	702.7	690.3	676.8	669.5
52.5°	658.1	656.0	642.5	631.1	622.8
55°	610.4	607.2	592.7	583.4	576.1
57.5°	559.5	558.5	546.0	533.5	530.4
60°	511.7	507.6	496.2	485.8	478.5
62.5°	461.9	458.8	449.5	438.0	432.9
65°	412.1	410.0	398.6	389.3	385.1
67.5°	363.3	359.2	350.9	342.6	340.5
70°	317.6	312.4	303.1	296.9	292.7
72.5°	267.8	264.7	259.5	252.2	248.1
75°	219.0	216.9	211.8	208.6	204.5
77.5°	173.4	172.3	169.2	167.1	164.0
80°	130.8	130.8	128.7	127.7	125.6
82.5°	93.4	91.3	91.3	89.3	89.3
85°	57.1	58.1	58.1	57.1	55.0
87.5°	28.0	28.0	27.0	27.0	24.9
90°	1.0	8.8	15.7	20.6	23.6
92.5°	29.5	34.4	43.2	50.1	52.1
95°	63.9	65.8	75.7	82.5	84.5
97.5°	98.3	99.2	113.0	118.9	119.9
100°	137.6	137.6	150.3	159.2	161.2
102.5°	179.8	184.7	189.6	199.5	202.4
105°	224.0	229.0	234.8	240.7	243.7
107.5°	272.2	277.1	282.0	285.0	285.0
110°	322.3	327.2	330.2	333.1	332.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	373.4	375.4	379.3	380.3	378.3
115°	423.5	427.4	429.4	428.4	427.4
117.5°	474.6	475.6	477.6	478.5	474.6
120°	521.8	526.7	527.7	527.7	523.7
122.5°	572.9	573.9	576.8	575.8	572.9
125°	618.1	624.0	625.0	623.0	622.0
127.5°	668.2	671.1	672.1	671.1	669.2
130°	712.4	717.3	719.3	718.3	716.3
132.5°	756.6	765.5	764.5	763.5	760.6
135°	803.8	809.7	810.7	810.7	806.7
137.5°	848.0	853.9	855.9	856.9	851.9
140°	890.3	895.2	898.1	900.1	895.2
142.5°	932.5	936.4	940.4	941.4	936.4
145°	973.8	977.7	980.7	980.7	977.7
147.5°	1012.1	1015.1	1017.0	1020.0	1012.1
150°	1050.4	1049.4	1053.4	1053.4	1051.4
152.5°	1081.9	1083.8	1084.8	1087.8	1083.8
155°	1114.3	1114.3	1115.3	1119.2	1114.3
157.5°	1143.8	1141.8	1142.8	1146.7	1139.9
160°	1169.3	1166.4	1167.4	1171.3	1166.4
162.5°	1191.9	1190.0	1190.0	1194.9	1189.0
165°	1211.6	1209.6	1210.6	1214.5	1208.6
167.5°	1229.3	1225.3	1225.3	1231.2	1225.3
170°	1243.0	1239.1	1239.1	1245.0	1238.1
172.5°	1252.9	1248.9	1248.9	1254.8	1248.9
175°	1259.7	1255.8	1255.8	1261.7	1254.8
177.5°	1264.6	1260.7	1259.7	1265.6	1258.7
180°	1262.7	1262.7	1262.7	1262.7	1262.7

(END OF REPORT)