

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: P1028199

Luminaire Tested: S125DIP-B850D1090UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028199
REPORT IS A COMBINATION OF REPORTS P1002426 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1090UB27-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

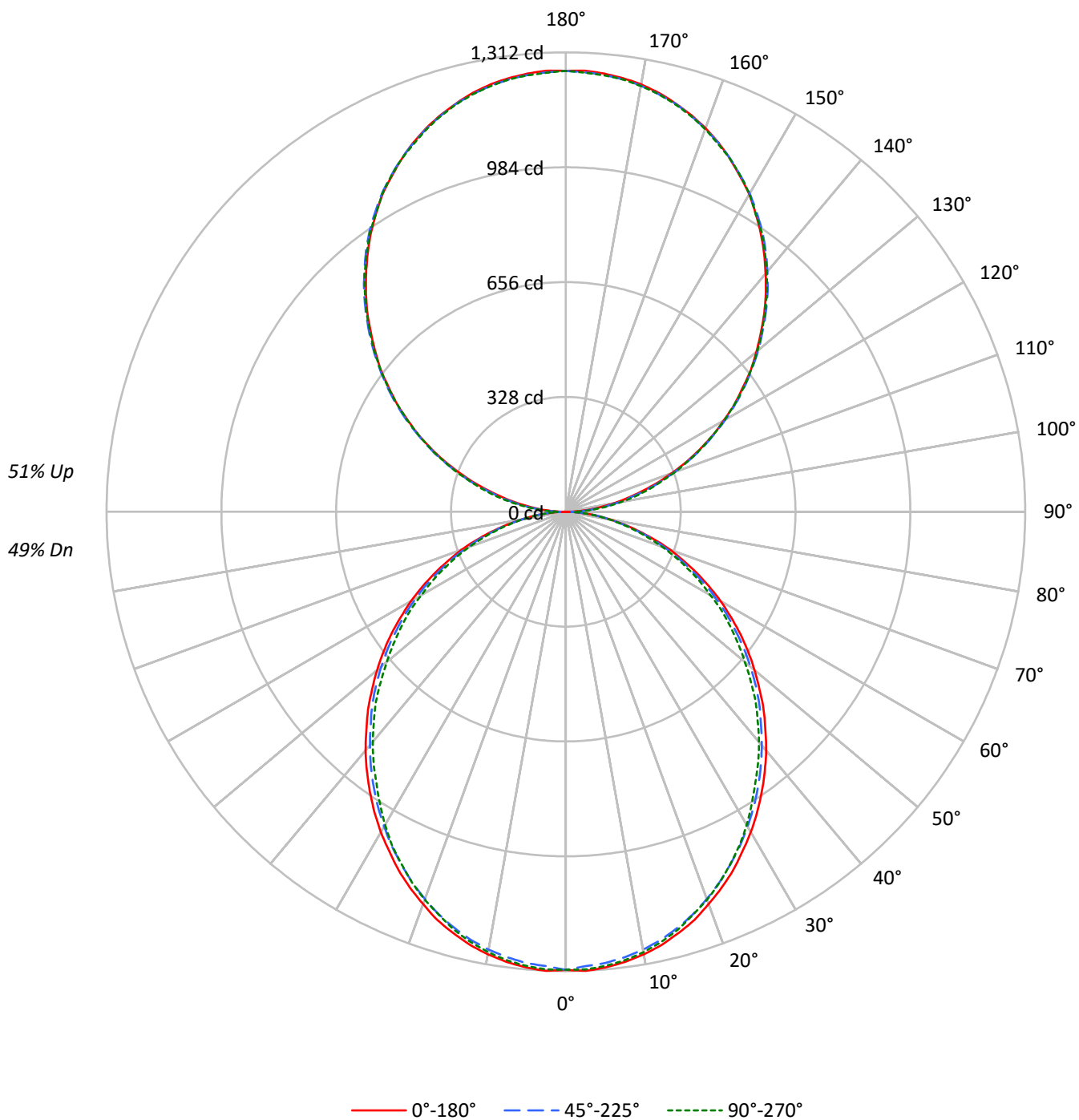
Lumens per Lamp: N/A
Luminaire Lumens: 6921.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
Input Voltage (V):
Input Current (A_{in}): 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°	8382	8382	8382
5°	8383	8187	8203
10°	8313	7999	7975
15°	8204	7775	7706
20°	8056	7515	7397
25°	7898	7231	7066
30°	7707	6935	6718
35°	7503	6625	6328
40°	7292	6297	5981
45°	7063	5978	5613
50°	6812	5616	5184
55°	6564	5216	4788
60°	6268	4794	4329
65°	5912	4307	3854
70°	5551	3746	3306
75°	4945	3084	2673
80°	4214	2304	1965
85°	3253	1364	1084

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	1.8
10°-20°	348.7	5.0
20°-30°	514.8	7.4
30°-40°	600.6	8.7
40°-50°	603.2	8.7
50°-60°	529.5	7.7
60°-70°	394.4	5.7
70°-80°	225.2	3.3
80°-90°	67.0	1.0
90°-100°	83.7	1.2
100°-110°	248.7	3.6
110°-120°	421.8	6.1
120°-130°	555.3	8.0
130°-140°	622.3	9.0
140°-150°	610.0	8.8
150°-160°	512.4	7.4
160°-170°	340.6	4.9
170°-180°	119.2	1.7
0°-30°	986.9	14.3
0°-40°	1587.5	22.9
0°-60°	2720.3	39.3
0°-90°	3407.0	49.2
90°-120°	754.3	10.9
90°-150°	2541.9	36.7
90°-180°	3514.0	50.8
0°-180°	6921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1306	1304	1294	1303	1302	124
15°	1245	1242	1231	1236	1236	351
25°	1130	1125	1112	1114	1110	520
35°	976	972	957	952	944	611
45°	799	795	782	770	767	616
55°	609	606	591	582	574	543
65°	411	409	397	388	384	408
75°	218	216	211	208	204	232
85°	57	58	58	57	55	62
90°	1	9	16	21	24	8
95°	64	66	75	82	84	67
105°	223	228	234	240	243	238
115°	422	426	428	427	426	418
125°	616	622	623	621	620	552
135°	802	807	808	808	804	618
145°	971	975	978	978	975	607
155°	1111	1111	1112	1116	1111	512
165°	1208	1206	1207	1211	1205	341
175°	1256	1252	1252	1258	1251	119
180°	1259	1259	1259	1259	1259	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.2	1308.2	1308.2	1308.2	1308.2
2.5°	1312.4	1309.3	1298.9	1309.3	1308.2
5°	1306.2	1304.1	1293.7	1303.1	1302.0
7.5°	1296.8	1294.8	1283.4	1292.7	1291.7
10°	1283.4	1281.3	1269.9	1278.2	1277.2
12.5°	1266.8	1262.7	1252.3	1258.6	1258.6
15°	1245.1	1242.0	1230.6	1235.8	1235.8
17.5°	1222.3	1217.2	1205.8	1212.0	1206.8
20°	1192.3	1190.2	1176.8	1184.0	1178.9
22.5°	1162.3	1158.2	1145.7	1149.9	1146.8
25°	1130.2	1125.0	1111.6	1113.7	1110.5
27.5°	1093.0	1089.8	1076.4	1077.4	1074.3
30°	1056.7	1053.6	1038.1	1036.0	1032.9
32.5°	1017.4	1012.2	998.8	994.6	988.4
35°	976.0	971.9	957.4	952.2	943.9
37.5°	933.6	928.4	914.9	907.7	902.5
40°	890.1	884.9	870.4	861.1	858.0
42.5°	843.5	839.4	824.9	816.6	811.4
45°	799.0	794.9	782.5	770.0	766.9
47.5°	750.4	751.4	735.9	723.5	716.2
50°	703.8	700.7	688.3	674.8	667.6
52.5°	656.2	654.1	640.7	629.3	621.0
55°	608.6	605.5	591.0	581.7	574.4
57.5°	557.9	556.8	544.4	532.0	528.9
60°	510.3	506.1	494.7	484.4	477.1
62.5°	460.6	457.5	448.2	436.8	431.6
65°	410.9	408.8	397.4	388.1	384.0
67.5°	362.2	358.1	349.8	341.5	339.5
70°	316.7	311.5	302.2	296.0	291.9
72.5°	267.0	263.9	258.7	251.5	247.4
75°	218.4	216.3	211.1	208.0	203.9
77.5°	172.8	171.8	168.7	166.6	163.5
80°	130.4	130.4	128.3	127.3	125.2
82.5°	93.1	91.1	91.1	89.0	89.0
85°	56.9	58.0	58.0	56.9	54.9
87.5°	27.9	27.9	26.9	26.9	24.8
90°	1.0	8.8	15.7	20.6	23.5
92.5°	29.4	34.3	43.1	50.0	51.9
95°	63.7	65.6	75.4	82.3	84.3
97.5°	98.0	99.0	112.7	118.6	119.5
100°	137.2	137.2	149.9	158.7	160.7
102.5°	179.3	184.2	189.1	198.9	201.8
105°	223.4	228.3	234.2	240.1	243.0
107.5°	271.4	276.3	281.2	284.2	284.2
110°	321.4	326.3	329.2	332.2	331.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	372.3	374.3	378.2	379.2	377.2
115°	422.3	426.2	428.2	427.2	426.2
117.5°	473.3	474.2	476.2	477.2	473.3
120°	520.3	525.2	526.2	526.2	522.3
122.5°	571.2	572.2	575.2	574.2	571.2
125°	616.3	622.2	623.2	621.2	620.2
127.5°	666.3	669.2	670.2	669.2	667.3
130°	710.4	715.3	717.2	716.3	714.3
132.5°	754.5	763.3	762.3	761.3	758.4
135°	801.5	807.4	808.4	808.4	804.5
137.5°	845.6	851.5	853.4	854.4	849.5
140°	887.7	892.6	895.6	897.5	892.6
142.5°	929.9	933.8	937.7	938.7	933.8
145°	971.0	974.9	977.9	977.9	974.9
147.5°	1009.2	1012.2	1014.1	1017.1	1009.2
150°	1047.5	1046.5	1050.4	1050.4	1048.4
152.5°	1078.8	1080.8	1081.7	1084.7	1080.8
155°	1111.1	1111.1	1112.1	1116.0	1111.1
157.5°	1140.5	1138.6	1139.6	1143.5	1136.6
160°	1166.0	1163.1	1164.1	1168.0	1163.1
162.5°	1188.5	1186.6	1186.6	1191.5	1185.6
165°	1208.1	1206.2	1207.2	1211.1	1205.2
167.5°	1225.8	1221.9	1221.9	1227.7	1221.9
170°	1239.5	1235.6	1235.6	1241.5	1234.6
172.5°	1249.3	1245.4	1245.4	1251.3	1245.4
175°	1256.2	1252.2	1252.2	1258.1	1251.3
177.5°	1261.1	1257.1	1256.2	1262.0	1255.2
180°	1259.1	1259.1	1259.1	1259.1	1259.1

(END OF REPORT)