

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: P1027049

Luminaire Tested: S125DIP-B850D850UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027049
REPORT IS A COMBINATION OF REPORTS P1002678 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D850UB2750-4F0-XX-W2A-F_2700K
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

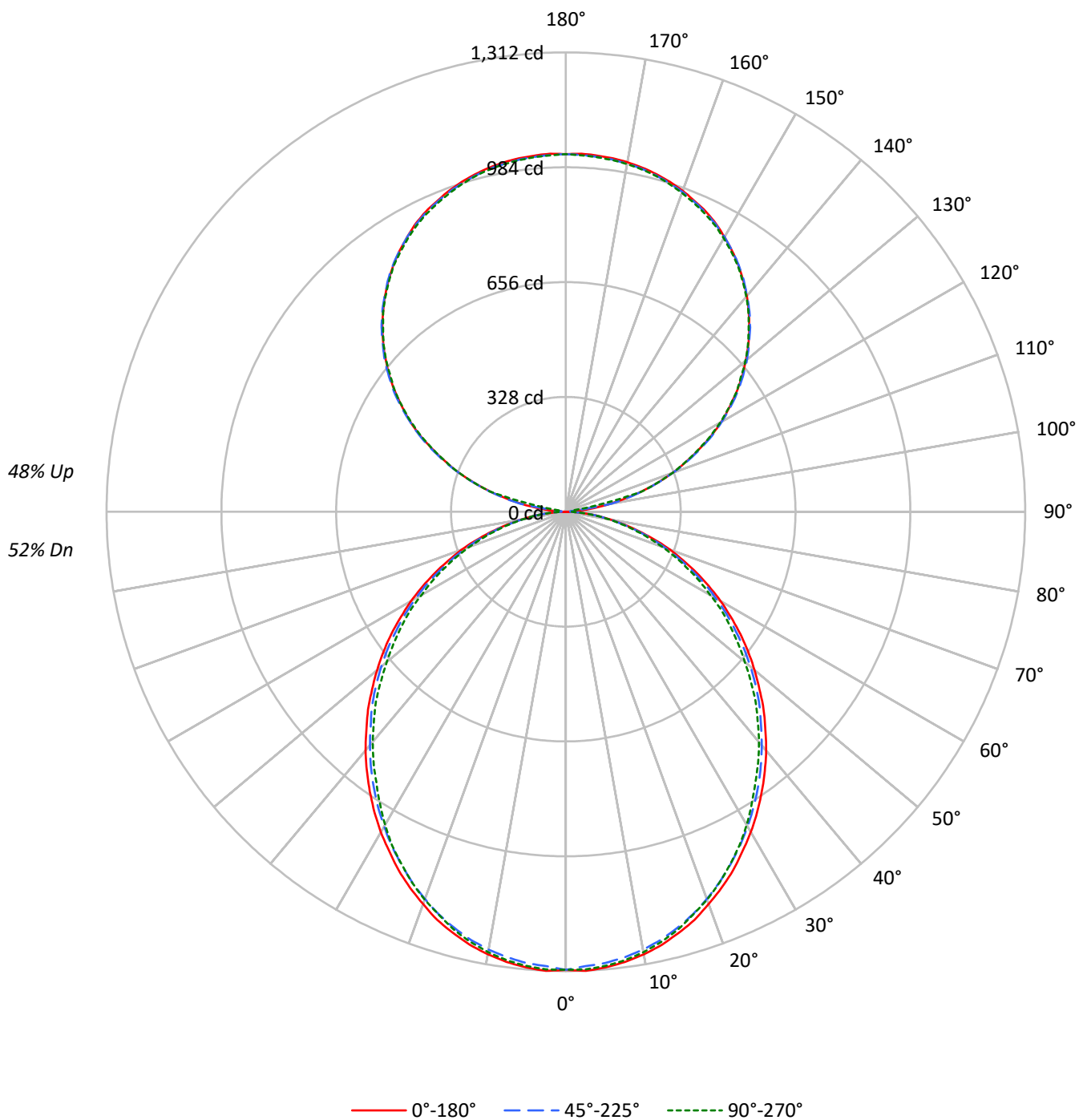
Lumens per Lamp: N/A
Luminaire Lumens: 6544.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
Input Voltage (V): 120
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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58
1	98	94	90	86	91	87	84	80	74	72	69	62	60	59	51	50	49
2	89	82	76	70	82	76	71	66	65	61	57	55	52	49	45	43	41
3	82	72	65	59	75	67	60	55	57	52	48	48	45	41	40	37	35
4	75	64	56	50	69	59	52	47	51	45	41	43	39	35	36	33	30
5	68	57	49	43	63	53	46	40	45	40	35	39	34	31	32	29	26
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	24	21	18
9	50	38	31	25	47	36	29	24	31	25	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	19	25	20	17	21	18	15

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	1.9
10°-20°	348.7	5.3
20°-30°	514.8	7.9
30°-40°	600.6	9.2
40°-50°	603.2	9.2
50°-60°	529.5	8.1
60°-70°	394.4	6.0
70°-80°	225.2	3.4
80°-90°	66.5	1.0
90°-100°	34.7	0.5
100°-110°	230.5	3.5
110°-120°	415.1	6.3
120°-130°	532.8	8.1
130°-140°	573.1	8.8
140°-150°	537.9	8.2
150°-160°	435.1	6.6
160°-170°	281.4	4.3
170°-180°	97.0	1.5
0°-30°	986.9	15.1
0°-40°	1587.5	24.3
0°-60°	2720.3	41.6
0°-90°	3406.5	52.1
90°-120°	680.3	10.4
90°-150°	2324.0	35.5
90°-180°	3137.0	47.9
0°-180°	6544.0	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	7	12	16	18	6
95°	43	41	12	16	16	53
105°	223	226	226	226	225	236
115°	418	422	422	420	415	414
125°	594	600	600	597	594	531
135°	741	746	744	743	738	571
145°	859	861	861	862	857	537
155°	946	942	943	946	940	436
165°	999	994	995	999	993	282
175°	1021	1017	1018	1024	1017	97
180°	1021	1021	1021	1021	1021	

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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°	0.8	6.8	12.1	15.9	18.2
92.5°	14.4	7.6	12.1	15.9	16.7
95°	43.2	40.9	12.1	15.9	15.9
97.5°	81.0	85.6	13.6	15.1	15.9
100°	126.4	128.7	131.7	18.9	15.9
102.5°	172.6	175.7	177.2	178.7	115.1
105°	222.6	225.6	225.6	225.6	224.9
107.5°	274.1	274.1	275.6	276.4	273.3
110°	324.1	324.1	325.6	323.3	324.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	371.0	373.3	374.0	371.0	369.5
115°	417.9	421.7	422.5	419.5	414.9
117.5°	467.2	467.2	470.2	465.6	464.1
120°	512.6	511.8	514.1	512.6	508.8
122.5°	552.7	556.5	557.3	555.7	551.2
125°	594.4	599.7	599.7	596.6	594.4
127.5°	634.5	638.3	637.5	636.0	629.9
130°	670.8	674.6	675.4	673.1	669.3
132.5°	707.2	711.7	709.4	709.4	705.7
135°	741.2	745.8	744.3	742.8	738.2
137.5°	773.0	777.6	776.1	776.1	772.3
140°	804.1	805.6	804.8	806.4	801.8
142.5°	832.1	832.9	834.4	834.4	829.8
145°	859.4	860.9	860.9	861.6	857.1
147.5°	883.6	883.6	884.3	885.1	879.8
150°	906.3	904.8	906.3	907.8	901.8
152.5°	928.3	924.5	926.0	927.5	922.2
155°	946.4	941.9	943.4	945.7	939.6
157.5°	960.8	958.5	958.5	960.8	954.8
160°	976.0	971.4	972.2	975.2	969.1
162.5°	988.1	983.5	984.3	988.8	982.0
165°	998.7	994.1	994.9	999.4	993.4
167.5°	1007.0	1002.5	1003.2	1008.5	1001.7
170°	1013.8	1008.5	1009.3	1015.3	1008.5
172.5°	1018.4	1013.1	1014.6	1019.9	1013.1
175°	1021.4	1016.8	1017.6	1023.7	1016.8
177.5°	1023.7	1019.1	1019.9	1025.2	1019.1
180°	1021.4	1021.4	1021.4	1021.4	1021.4

(END OF REPORT)