

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: P1027299

Luminaire Tested: S125RDIP-B850D850UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027299
REPORT IS A COMBINATION OF REPORTS P1005890 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B850D850UB2750-4F0-XX-W2A-F_2700K
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

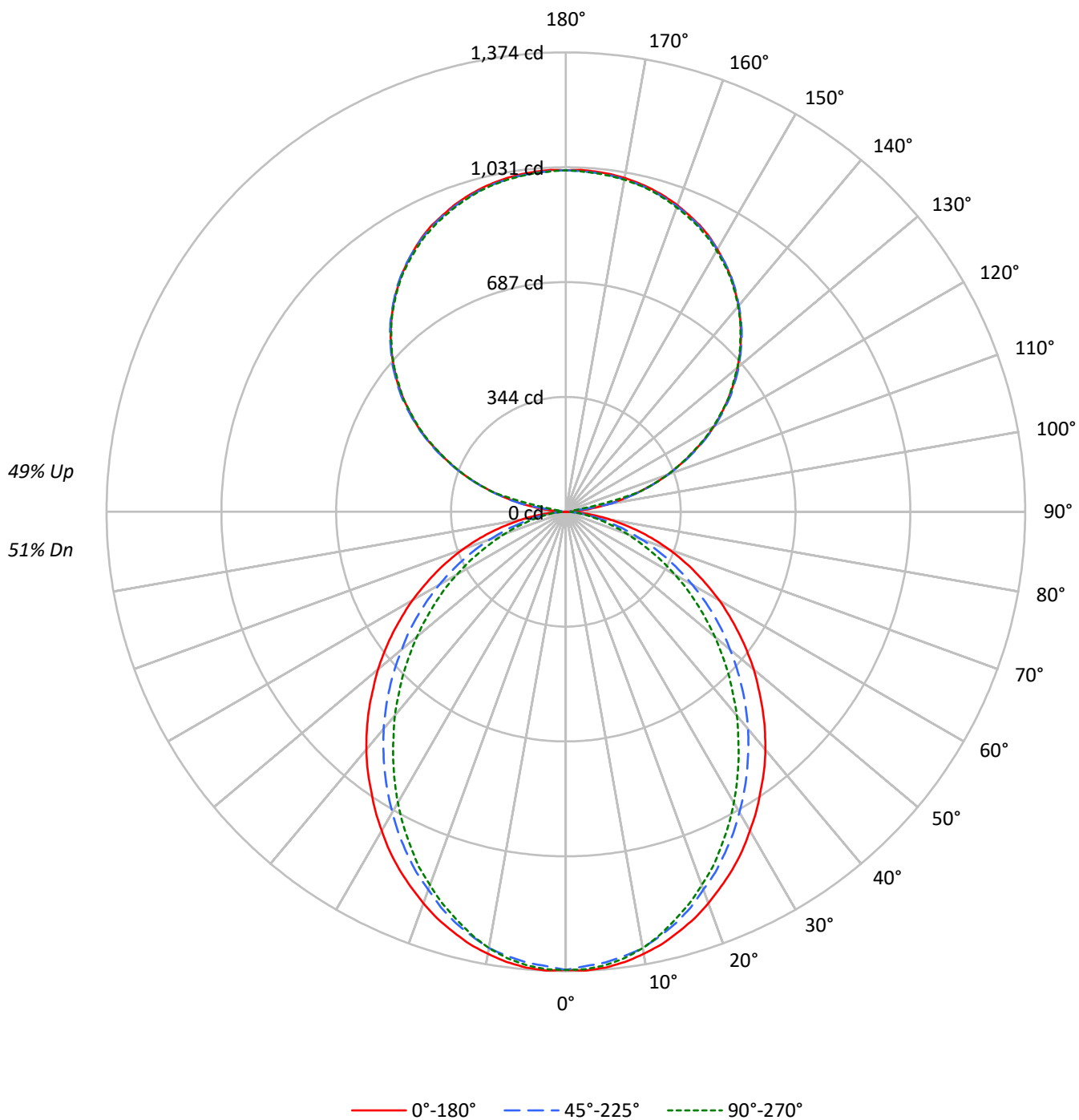
Lumens per Lamp: N/A
Luminaire Lumens: 6377.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	57	57	57
1	98	94	90	87	91	87	84	81	74	71	69	62	60	59	51	50	48	48	48	43
2	90	82	76	71	83	76	71	67	65	61	58	54	52	49	45	43	41	41	41	37
3	82	73	65	60	75	67	61	56	57	53	49	48	45	42	40	37	35	35	35	31
4	75	64	56	51	69	60	53	48	51	46	42	43	39	36	36	33	31	31	31	27
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27	27	27	24
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24	24	24	21
7	59	47	39	33	54	43	36	31	38	32	28	32	28	24	27	24	21	21	21	18
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19	19	19	17
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	20	17	17	17	15
10	48	36	28	24	44	33	27	22	29	24	20	25	21	18	21	18	16	16	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8781	8781	8781
5°	8782	8562	8576
10°	8697	8347	8273
15°	8573	8044	7874
20°	8421	7681	7456
25°	8246	7326	7008
30°	8033	6936	6537
35°	7814	6540	6038
40°	7606	6133	5549
45°	7357	5694	5038
50°	7104	5227	4517
55°	6810	4768	3978
60°	6510	4244	3419
65°	6151	3656	2815
70°	5734	2976	2215
75°	5156	2238	1615
80°	4350	1449	1089
85°	3253	778	614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7357 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	2.0
10°-20°	360.5	5.7
20°-30°	522.7	8.2
30°-40°	595.5	9.3
40°-50°	580.4	9.1
50°-60°	488.5	7.7
60°-70°	342.3	5.4
70°-80°	175.5	2.8
80°-90°	45.3	0.7
90°-100°	34.7	0.5
100°-110°	230.5	3.6
110°-120°	415.1	6.5
120°-130°	532.8	8.4
130°-140°	573.1	9.0
140°-150°	537.9	8.4
150°-160°	435.1	6.8
160°-170°	281.4	4.4
170°-180°	97.0	1.5
0°-30°	1012.1	15.9
0°-40°	1607.6	25.2
0°-60°	2676.5	42.0
0°-90°	3239.5	50.8
90°-120°	680.3	10.7
90°-150°	2324.0	36.4
90°-180°	3137.0	49.2
0°-180°	6377.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1368	1364	1353	1363	1361	130
15°	1301	1295	1273	1272	1263	367
25°	1180	1164	1126	1113	1101	543
35°	1016	992	945	915	901	637
45°	832	802	745	704	688	642
55°	631	598	540	494	477	565
65°	428	392	337	296	280	423
75°	228	197	153	130	123	241
85°	57	38	33	32	31	62
90°	1	7	12	16	18	5
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°	1370.5	1370.5	1370.5	1370.5	1370.5
2.5°	1373.6	1370.5	1360.1	1370.5	1369.5
5°	1368.4	1364.3	1352.9	1363.3	1361.2
7.5°	1358.1	1353.9	1340.5	1348.8	1346.7
10°	1342.6	1339.4	1325.0	1328.1	1325.0
12.5°	1325.0	1320.8	1300.1	1302.2	1297.0
15°	1301.1	1294.9	1273.2	1272.2	1262.8
17.5°	1276.3	1267.0	1241.1	1235.9	1228.7
20°	1246.3	1235.9	1202.8	1197.6	1188.3
22.5°	1213.2	1202.8	1167.6	1156.2	1149.0
25°	1180.0	1164.5	1126.2	1112.8	1101.4
27.5°	1142.8	1124.1	1083.8	1066.2	1054.8
30°	1101.4	1081.7	1038.2	1014.4	1005.1
32.5°	1061.0	1037.2	992.7	965.8	953.3
35°	1016.5	991.6	945.1	915.0	900.6
37.5°	974.0	944.0	896.4	861.2	846.7
40°	928.5	897.4	847.8	808.4	796.0
42.5°	880.9	848.8	797.0	759.8	740.1
45°	832.2	802.2	745.3	703.9	688.4
47.5°	781.5	750.5	693.5	651.1	633.5
50°	733.9	699.7	640.7	597.3	581.7
52.5°	682.1	646.9	592.1	544.5	528.9
55°	631.4	598.3	540.3	493.8	477.2
57.5°	579.7	544.5	488.6	443.0	428.5
60°	530.0	493.8	437.9	392.3	376.8
62.5°	477.2	443.0	386.1	344.7	329.2
65°	427.5	392.3	337.4	296.0	280.5
67.5°	377.8	342.6	289.8	250.5	238.1
70°	327.1	291.9	240.1	208.1	195.6
72.5°	277.4	243.3	195.6	166.7	159.4
75°	227.7	196.7	153.2	130.4	123.2
77.5°	177.0	152.2	115.9	98.3	92.1
80°	134.6	109.7	80.7	71.4	69.4
82.5°	93.2	71.4	53.8	50.7	49.7
85°	56.9	38.3	33.1	32.1	31.1
87.5°	23.8	16.6	15.5	15.5	14.5
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)