

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: P1027488

Luminaire Tested: S125DIP-B1090D850UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027488
REPORT IS A COMBINATION OF REPORTS P1001463 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D850UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

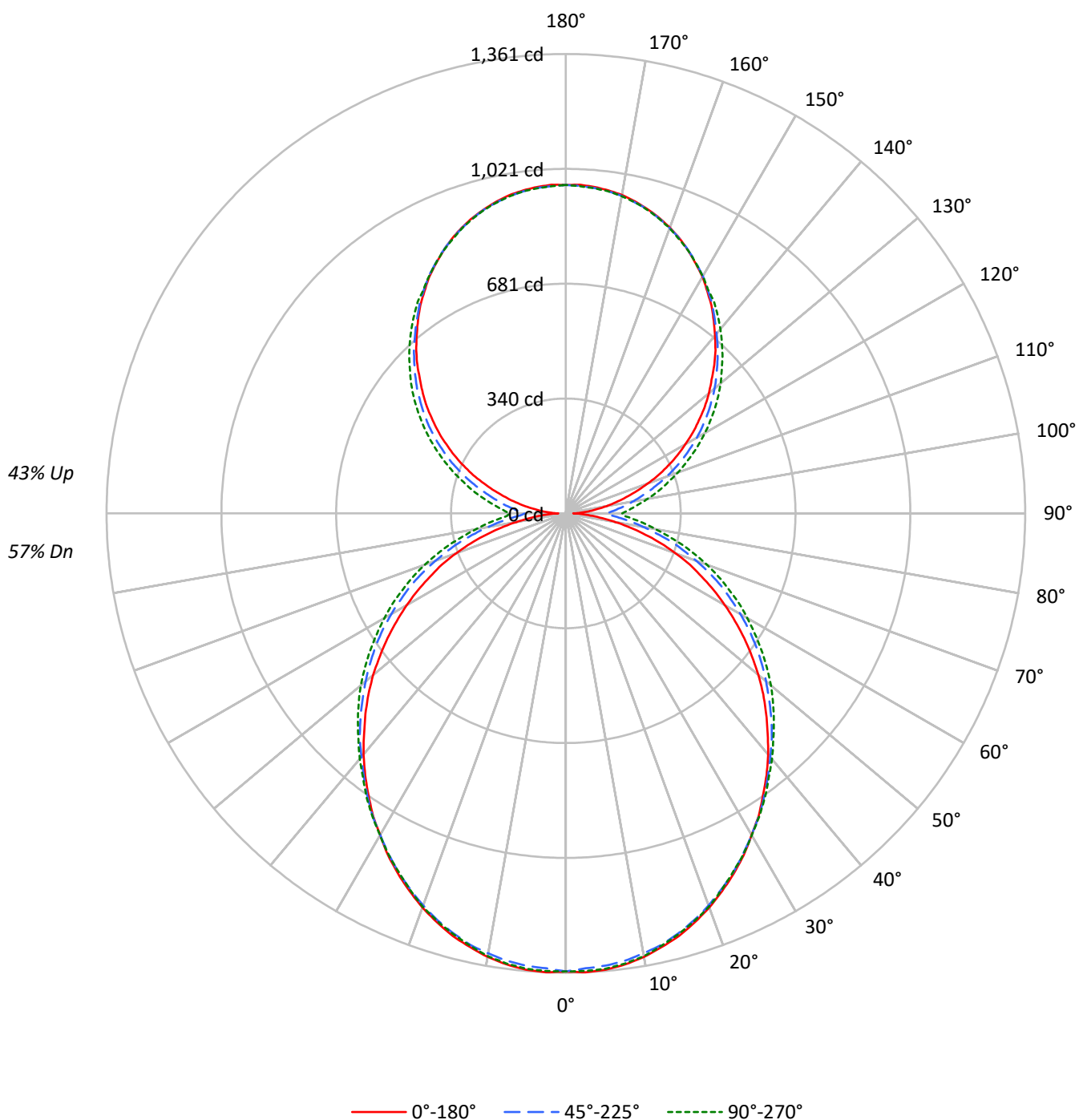
Lumens per Lamp: N/A
Luminaire Lumens: 6921.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	8695	8695	8695
5°	8709	8513	8533
10°	8644	8339	8315
15°	8539	8137	8047
20°	8397	7893	7780
25°	8228	7634	7458
30°	8024	7351	7165
35°	7834	7090	6895
40°	7641	6815	6623
45°	7421	6576	6378
50°	7212	6317	6157
55°	6960	6071	5900
60°	6684	5790	5637
65°	6394	5493	5341
70°	6063	5096	5033
75°	5543	4705	4656
80°	4857	4228	4240
85°	4185	3847	4022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	1.9
10°-20°	364.6	5.3
20°-30°	542.1	7.8
30°-40°	642.0	9.3
40°-50°	663.7	9.6
50°-60°	611.4	8.8
60°-70°	494.3	7.1
70°-80°	330.7	4.8
80°-90°	172.5	2.5
90°-100°	161.0	2.3
100°-110°	263.2	3.8
110°-120°	373.5	5.4
120°-130°	456.1	6.6
130°-140°	492.7	7.1
140°-150°	473.7	6.8
150°-160°	395.9	5.7
160°-170°	263.2	3.8
170°-180°	92.1	1.3
0°-30°	1035.1	15.0
0°-40°	1677.1	24.2
0°-60°	2952.3	42.7
0°-90°	3949.7	57.1
90°-120°	797.7	11.5
90°-150°	2220.1	32.1
90°-180°	2971.0	42.9
0°-180°	6921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1357	1354	1345	1356	1354	129
15°	1296	1297	1288	1296	1291	365
25°	1178	1182	1174	1179	1172	542
35°	1019	1028	1024	1028	1028	638
45°	840	854	861	870	872	648
55°	645	667	688	702	708	577
65°	444	475	507	527	532	441
75°	245	279	322	349	355	259
85°	73	117	164	193	204	76
90°	22	71	121	156	167	18
95°	66	103	155	190	201	65
105°	185	210	254	285	297	197
115°	334	347	383	406	413	331
125°	482	485	512	532	538	431
135°	622	625	635	653	656	479
145°	752	753	756	762	765	470
155°	859	859	859	862	859	396
165°	934	932	933	936	931	263
175°	971	968	968	972	967	92
180°	973	973	973	973	973	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1361.1	1358.4	1349.1	1358.4	1357.1
5°	1357.1	1354.4	1345.1	1355.8	1354.4
7.5°	1347.8	1346.4	1337.1	1346.4	1345.1
10°	1334.5	1334.5	1323.8	1333.1	1331.8
12.5°	1315.8	1317.2	1309.2	1315.8	1311.8
15°	1295.9	1297.2	1287.9	1295.9	1290.6
17.5°	1270.6	1273.3	1263.9	1270.6	1266.6
20°	1242.7	1245.3	1236.0	1240.0	1240.0
22.5°	1210.7	1216.1	1205.4	1210.7	1206.7
25°	1177.5	1181.5	1173.5	1178.8	1172.1
27.5°	1141.5	1146.9	1137.6	1141.5	1138.9
30°	1100.3	1108.3	1100.3	1103.0	1101.6
32.5°	1063.0	1069.7	1064.4	1067.0	1065.7
35°	1019.1	1028.5	1024.5	1028.5	1028.5
37.5°	976.6	984.5	983.2	988.5	987.2
40°	932.7	943.3	942.0	947.3	950.0
42.5°	884.8	899.4	903.4	910.0	910.0
45°	839.5	854.2	860.8	870.1	871.5
47.5°	793.0	806.3	816.9	830.2	832.9
50°	745.1	759.7	774.3	789.0	793.0
52.5°	694.5	713.1	731.8	747.7	750.4
55°	645.3	666.6	687.9	702.5	707.8
57.5°	594.7	620.0	643.9	659.9	663.9
60°	544.2	570.8	597.4	617.3	621.3
62.5°	494.9	521.5	550.8	573.4	578.8
65°	444.4	475.0	506.9	526.9	532.2
67.5°	397.8	427.1	459.0	483.0	489.6
70°	345.9	376.5	411.1	436.4	444.4
72.5°	295.4	327.3	365.9	393.8	399.1
75°	244.8	279.4	322.0	348.6	355.2
77.5°	195.6	235.5	275.4	304.7	310.0
80°	150.3	190.3	235.5	264.8	270.1
82.5°	109.1	151.7	198.2	226.2	236.8
85°	73.2	117.1	163.6	192.9	203.6
87.5°	46.6	89.1	134.4	165.0	174.3
90°	22.1	70.7	121.2	155.6	167.2
92.5°	41.3	83.7	137.1	171.6	182.5
95°	66.5	102.6	155.4	190.0	200.8
97.5°	91.7	124.4	178.9	211.3	221.5
100°	120.6	148.6	201.0	235.8	245.3
102.5°	151.9	180.9	225.9	260.1	270.4
105°	184.6	209.7	254.2	285.3	296.9
107.5°	220.3	242.8	285.2	314.1	322.0
110°	257.7	277.4	316.9	344.5	353.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	297.0	310.5	349.5	374.2	382.0
115°	334.3	346.7	382.8	405.9	413.2
117.5°	372.4	379.8	414.6	437.9	444.2
120°	408.8	416.4	447.8	470.5	475.4
122.5°	446.7	448.9	480.4	500.9	506.6
125°	481.6	484.8	512.2	531.9	537.8
127.5°	518.9	519.9	543.2	562.4	568.8
130°	553.0	555.4	575.6	593.4	598.6
132.5°	585.7	592.5	605.1	622.9	626.0
135°	622.1	625.2	635.3	652.6	656.2
137.5°	656.1	659.3	666.2	682.9	684.4
140°	687.3	691.1	694.8	710.9	712.4
142.5°	719.9	721.6	724.6	737.4	738.9
145°	751.7	753.4	755.7	762.4	765.4
147.5°	779.9	782.2	783.7	788.6	785.2
150°	809.4	808.7	811.7	811.7	811.5
152.5°	833.7	835.2	835.9	838.2	835.2
155°	858.6	858.6	859.4	862.4	858.6
157.5°	881.4	879.8	880.6	883.6	878.3
160°	901.0	898.8	899.5	902.6	898.8
162.5°	918.5	916.9	916.9	920.7	916.2
165°	933.6	932.1	932.8	935.9	931.3
167.5°	947.2	944.2	944.2	948.7	944.2
170°	957.8	954.8	954.8	959.3	954.0
172.5°	965.4	962.4	962.4	966.9	962.4
175°	970.7	967.7	967.7	972.2	966.9
177.5°	974.5	971.5	970.7	975.2	969.9
180°	973.0	973.0	973.0	973.0	973.0

(END OF REPORT)