

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: P1027487

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027487
REPORT IS A COMBINATION OF REPORTS P1001462 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-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

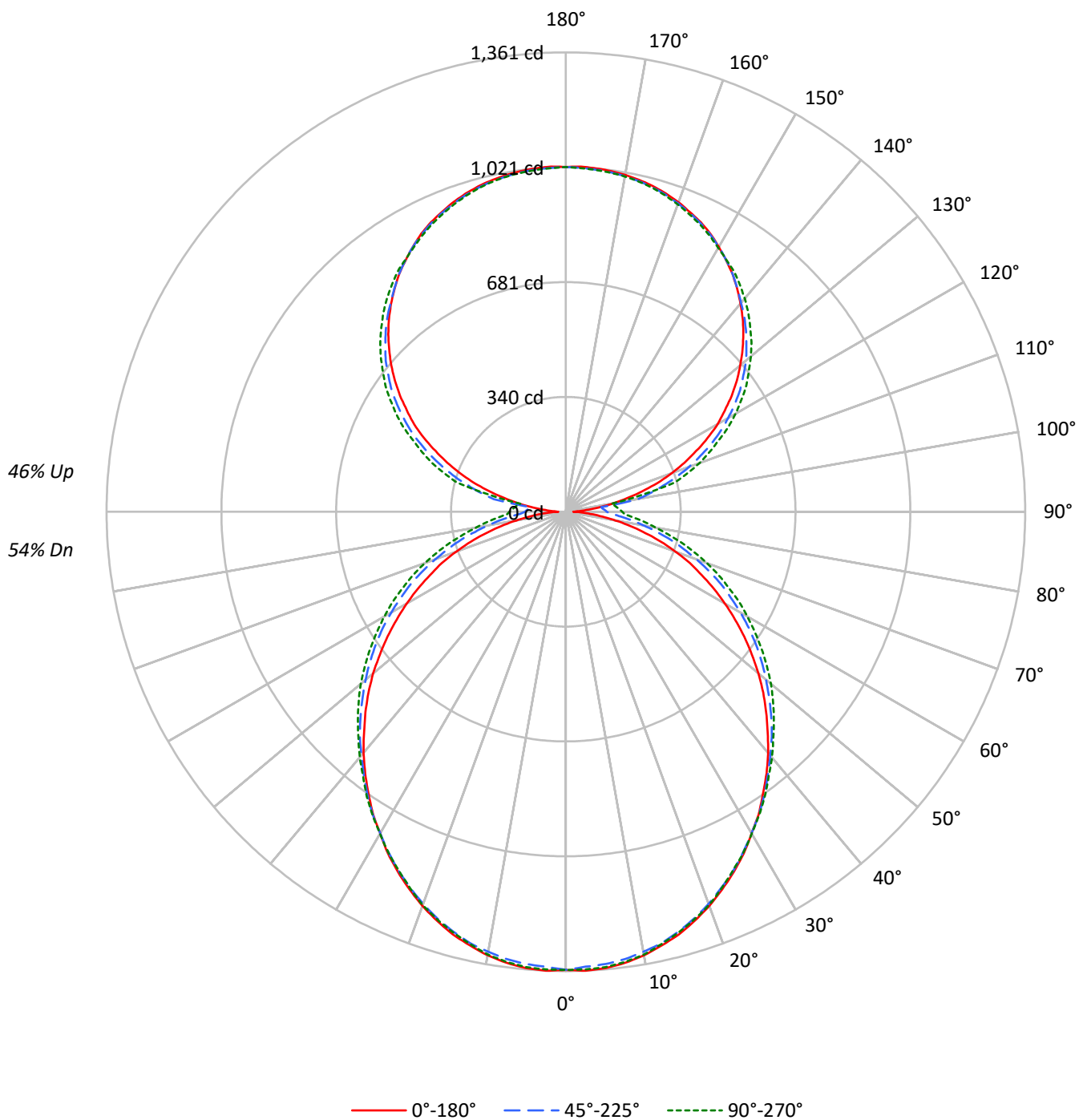
Lumens per Lamp: N/A
Luminaire Lumens: 7343.1 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60
1	98	93	89	85	90	86	83	79	74	71	69	62	60	58	51	50	49
2	89	81	74	69	82	75	69	65	64	60	56	54	51	48	45	42	40
3	81	71	63	57	74	66	59	54	56	51	47	48	44	40	39	37	34
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	25
6	62	50	41	35	57	46	39	34	40	34	30	34	29	26	29	25	22
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	22	20
8	53	41	33	27	49	38	31	26	33	27	23	28	24	20	24	20	18
9	50	37	30	24	46	35	28	23	30	25	21	26	22	18	22	18	16
10	46	34	27	22	43	32	25	21	28	22	19	24	20	16	20	17	14

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	1.7
10°-20°	364.6	5.0
20°-30°	542.1	7.4
30°-40°	642.0	8.7
40°-50°	663.7	9.0
50°-60°	611.4	8.3
60°-70°	494.3	6.7
70°-80°	330.7	4.5
80°-90°	172.5	2.3
90°-100°	131.0	1.8
100°-110°	301.5	4.1
110°-120°	462.6	6.3
120°-130°	559.7	7.6
130°-140°	584.8	8.0
140°-150°	540.2	7.4
150°-160°	435.1	5.9
160°-170°	281.4	3.8
170°-180°	97.0	1.3
0°-30°	1035.1	14.1
0°-40°	1677.1	22.8
0°-60°	2952.3	40.2
0°-90°	3949.7	53.8
90°-120°	895.1	12.2
90°-150°	2579.9	35.1
90°-180°	3393.0	46.2
0°-180°	7343.1	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	17
95°	60	93	109	142	152	66
105°	235	259	299	325	334	248
115°	426	439	474	495	499	422
125°	600	604	630	648	653	535
135°	744	747	755	771	773	574
145°	861	861	861	868	869	538
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°	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°	33.0	64.8	115.9	148.9	159.1
95°	60.5	92.8	109.2	142.3	151.6
97.5°	97.0	133.5	105.4	134.8	145.0
100°	141.0	171.3	216.9	132.0	137.0
102.5°	185.9	214.3	257.0	285.1	229.5
105°	234.6	258.9	298.8	325.4	334.0
107.5°	284.7	303.4	343.5	370.9	375.7
110°	333.4	349.4	388.1	411.1	421.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.3	394.6	431.2	452.2	460.0
115°	425.9	439.0	474.4	495.3	498.7
117.5°	473.9	480.5	516.8	534.8	542.6
120°	519.3	522.4	555.3	576.5	580.6
122.5°	558.0	563.2	593.2	612.9	616.4
125°	599.7	603.7	630.3	648.5	652.9
127.5°	638.5	641.0	662.8	681.2	683.1
130°	674.8	677.3	696.7	713.0	715.9
132.5°	709.9	714.4	725.4	744.0	745.6
135°	743.9	747.1	754.9	770.7	772.8
137.5°	775.7	778.9	782.8	798.7	800.2
140°	805.4	806.9	807.5	823.7	824.4
142.5°	833.4	832.9	834.4	846.4	847.1
145°	860.7	860.9	860.9	868.3	869.1
147.5°	883.6	883.6	884.3	887.8	885.1
150°	906.3	904.8	906.3	907.8	903.1
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)