

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: P1009028

Luminaire Tested: S122DIP-B485D1080UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009028
REPORT IS A COMBINATION OF REPORTS P984176 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D1080UB50-4F0-XX-W2A-F1
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

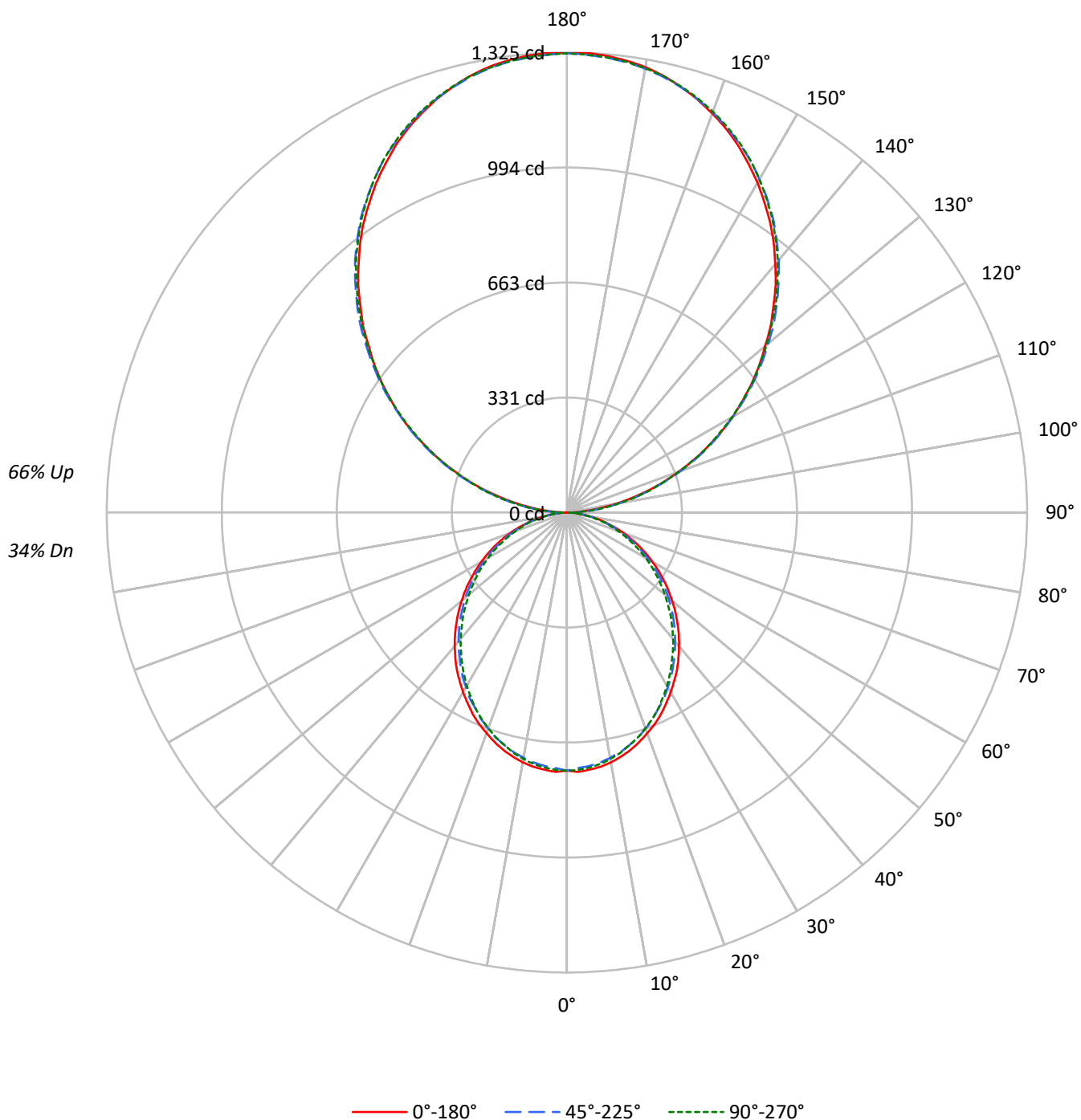
Lumens per Lamp: N/A
Luminaire Lumens: 5594.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34						
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	36	35	29						
2	86	78	73	68	77	71	66	62	57	53	50	44	42	40	32	31	29	24						
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	27	25	20						
4	71	61	53	47	64	55	49	44	45	40	36	35	31	29	25	23	21	17						
5	65	54	46	40	59	49	42	37	40	35	31	31	28	25	23	21	19	15						
6	60	48	41	35	54	44	37	32	36	31	27	28	24	22	21	18	16	13						
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12						
8	52	40	32	27	46	36	29	25	29	24	21	23	20	17	17	15	13	11						
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	14	12	10						
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	11	9						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11772	11772	11772
5°	11791	11220	11141
10°	11695	10709	10497
15°	11524	10194	9819
20°	11291	9633	9177
25°	11061	9048	8536
30°	10771	8498	7863
35°	10497	7919	7203
40°	10160	7345	6579
45°	9824	6777	5966
50°	9455	6199	5332
55°	9070	5582	4729
60°	8636	4912	4104
65°	8159	4233	3447
70°	7557	3489	2783
75°	6718	2689	2149
80°	5708	1829	1383
85°	4139	851	588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.3
10°-20°	196.9	3.5
20°-30°	289.4	5.2
30°-40°	336.1	6.0
40°-50°	335.7	6.0
50°-60°	292.7	5.2
60°-70°	216.4	3.9
70°-80°	122.4	2.2
80°-90°	36.1	0.6
90°-100°	81.8	1.5
100°-110°	260.1	4.7
110°-120°	445.1	8.0
120°-130°	585.4	10.5
130°-140°	657.1	11.7
140°-150°	644.4	11.5
150°-160°	540.5	9.7
160°-170°	358.5	6.4
170°-180°	125.3	2.2
0°-30°	556.3	9.9
0°-40°	892.4	16.0
0°-60°	1520.9	27.2
0°-90°	1895.8	33.9
90°-120°	787.0	14.1
90°-150°	2673.9	47.8
90°-180°	3698.0	66.1
0°-180°	5594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	744	741	733	739	737	71
15°	708	704	694	697	694	199
25°	641	635	623	624	623	295
35°	553	546	534	530	526	345
45°	450	445	434	426	423	347
55°	340	336	328	319	315	304
65°	230	225	218	212	208	227
75°	120	119	115	111	112	128
85°	29	29	28	26	25	33
90°	1	14	39	37	38	5
95°	58	69	71	71	69	65
105°	240	243	246	248	248	253
115°	446	453	451	450	446	442
125°	650	660	656	653	652	581
135°	840	853	855	854	851	650
145°	1020	1028	1035	1036	1031	637
155°	1166	1170	1173	1179	1175	537
165°	1269	1268	1268	1276	1270	358
175°	1320	1317	1315	1323	1316	125
180°	1323	1323	1323	1323	1323	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.7	743.7	743.7	743.7	743.7
2.5°	748.0	744.4	736.5	743.7	742.2
5°	743.7	740.8	732.9	738.7	737.2
7.5°	738.7	734.4	726.5	732.2	730.8
10°	730.8	725.8	717.2	722.9	720.8
12.5°	720.1	715.8	707.2	710.8	709.3
15°	707.9	703.6	694.3	697.2	693.6
17.5°	692.9	688.6	679.3	682.9	679.3
20°	676.4	672.2	662.1	664.3	661.4
22.5°	660.0	653.6	644.3	644.3	642.8
25°	640.7	635.0	622.8	624.2	622.8
27.5°	619.2	614.2	604.9	602.8	599.2
30°	597.8	592.1	581.3	579.2	576.3
32.5°	574.9	570.6	559.2	554.9	552.0
35°	552.7	545.6	534.2	529.9	526.3
37.5°	527.7	521.3	509.8	504.8	501.3
40°	502.0	496.3	484.8	478.4	475.5
42.5°	476.9	471.2	459.8	452.6	448.3
45°	449.8	444.8	434.0	426.2	423.3
47.5°	423.3	418.3	406.9	399.0	394.7
50°	395.4	391.9	381.8	371.8	368.3
52.5°	368.3	363.3	354.0	346.1	341.1
55°	340.4	336.1	327.5	318.9	315.3
57.5°	312.5	308.9	299.6	291.0	288.2
60°	284.6	281.7	271.7	263.9	261.7
62.5°	257.4	252.4	245.3	238.1	235.3
65°	229.5	225.2	218.1	211.7	208.1
67.5°	200.9	197.4	190.9	185.9	183.1
70°	174.5	171.6	165.2	160.2	157.3
72.5°	147.3	144.4	140.9	135.9	133.7
75°	120.1	118.7	115.1	110.8	112.3
77.5°	95.8	93.0	91.5	89.4	87.2
80°	71.5	70.8	69.4	67.2	65.8
82.5°	48.6	48.6	47.9	45.0	45.0
85°	29.3	28.6	27.9	25.7	25.0
87.5°	12.9	11.4	10.0	7.9	7.2
90°	1.1	14.5	39.1	36.8	38.0
92.5°	24.6	33.5	34.6	35.7	35.7
95°	58.0	69.2	71.4	71.4	69.2
97.5°	97.1	107.2	111.6	111.6	111.6
100°	141.8	150.7	154.0	154.0	152.9
102.5°	188.6	195.3	199.8	200.9	199.8
105°	240.0	243.3	245.6	247.8	247.8
107.5°	291.3	295.8	295.8	296.9	291.3
110°	340.5	347.2	347.2	347.2	343.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	394.0	400.7	399.6	396.3	394.0
115°	446.5	453.2	451.0	449.9	446.5
117.5°	499.0	507.9	502.3	499.0	495.6
120°	551.4	560.4	551.4	551.4	548.1
122.5°	599.4	610.6	605.0	601.7	599.4
125°	649.7	659.7	656.4	653.0	651.9
127.5°	698.8	711.1	706.6	702.1	698.8
130°	744.6	759.1	756.8	754.6	750.1
132.5°	795.9	807.1	808.2	802.6	799.2
135°	840.5	852.8	855.1	853.9	850.6
137.5°	889.7	899.7	901.9	900.8	896.4
140°	933.2	943.2	948.8	948.8	944.4
142.5°	977.9	987.9	991.2	992.4	987.9
145°	1020.3	1028.1	1034.8	1035.9	1031.4
147.5°	1058.2	1068.3	1072.7	1075.0	1070.5
150°	1097.3	1104.0	1108.5	1111.8	1108.5
152.5°	1131.9	1138.6	1144.2	1148.6	1144.2
155°	1166.5	1169.8	1173.2	1178.8	1175.4
157.5°	1196.6	1198.9	1201.1	1208.9	1203.3
160°	1223.4	1225.7	1226.8	1233.5	1229.0
162.5°	1248.0	1248.0	1249.1	1256.9	1251.3
165°	1269.2	1268.1	1268.1	1275.9	1270.3
167.5°	1288.2	1284.8	1284.8	1292.6	1287.1
170°	1302.7	1299.3	1298.2	1306.0	1299.3
172.5°	1312.7	1309.4	1308.3	1316.1	1309.4
175°	1320.5	1317.2	1315.0	1322.8	1316.1
177.5°	1325.0	1321.7	1319.4	1326.1	1319.4
180°	1322.8	1322.8	1322.8	1322.8	1322.8

(END OF REPORT)