

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: P1008152

Luminaire Tested: S122DIP-B675D1080UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008152
REPORT IS A COMBINATION OF REPORTS P984435 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D1080UB2750-4F0-XX-W2A-D_4000K
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

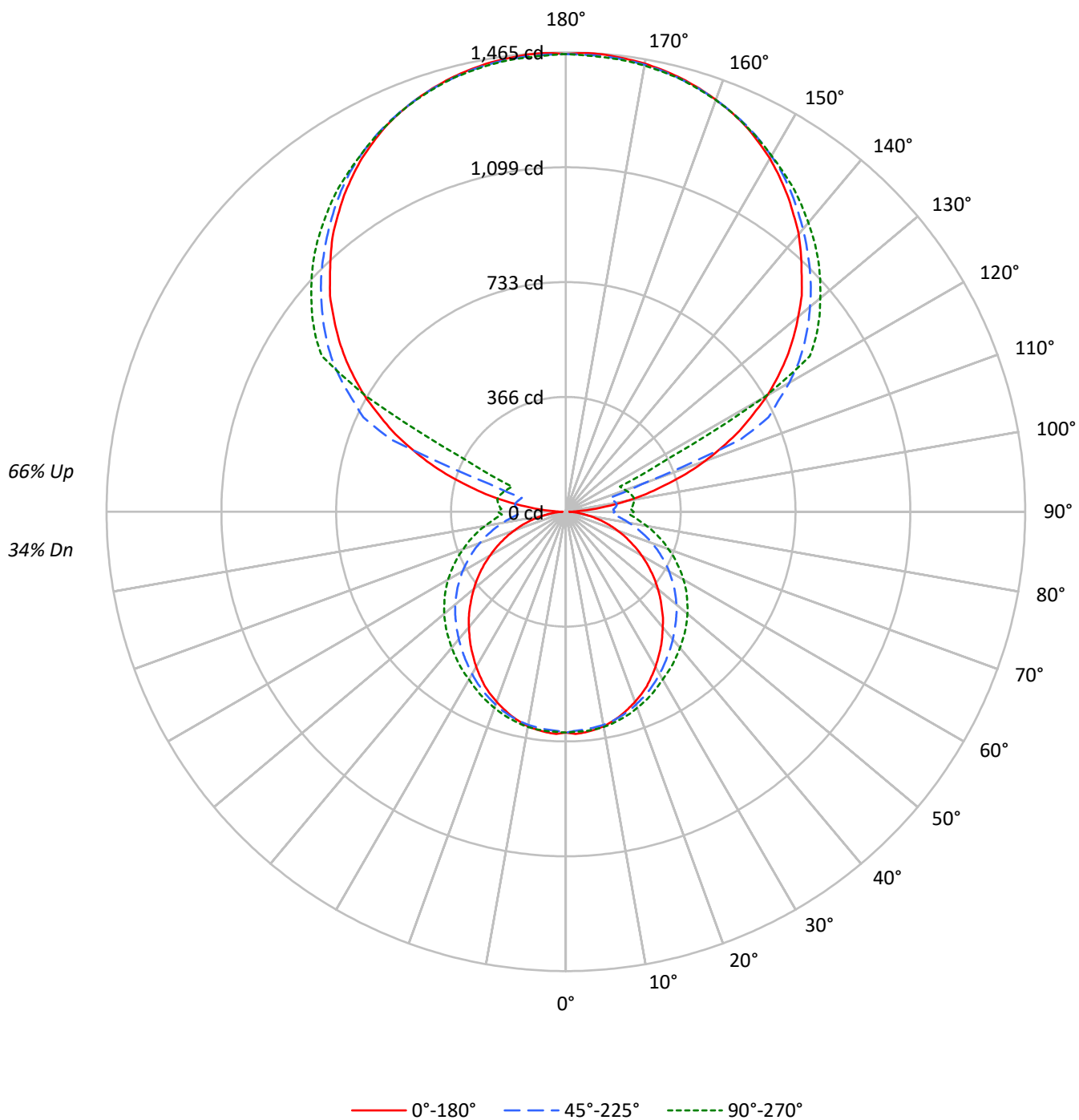
Lumens per Lamp: N/A
Luminaire Lumens: 6968.9 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
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	50	30	10
RCR																				
0	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42			34
1	93	89	84	81	84	80	76	73	64	61	59	49	47	46	35	34	33			27
2	84	77	70	65	76	69	64	59	55	51	48	42	40	37	30	29	27			22
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	27	24	23			18
4	70	59	51	45	63	53	46	41	43	38	34	33	29	26	24	21	19			15
5	64	52	44	38	57	47	40	35	38	33	29	29	25	22	21	19	16			13
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14			11
7	54	42	34	28	49	38	31	26	31	25	22	24	20	17	17	15	13			10
8	50	38	30	25	45	34	28	23	28	23	19	22	18	15	16	13	11			9
9	47	35	27	22	42	31	25	20	25	20	17	20	16	13	15	12	10			8
10	44	32	24	20	39	29	22	18	23	18	15	18	15	12	13	11	9			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11147	11147	11147
5°	11197	10672	10612
10°	11122	10301	10152
15°	10965	9919	9680
20°	10767	9518	9232
25°	10573	9134	8827
30°	10297	8743	8425
35°	10020	8366	8130
40°	9729	8041	7836
45°	9450	7745	7580
50°	9152	7473	7328
55°	8839	7184	7072
60°	8454	6883	6801
65°	8055	6537	6491
70°	7600	6165	6156
75°	7021	5793	5842
80°	6108	5405	5514
85°	5184	5040	5232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9450 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.0
10°-20°	191.5	2.7
20°-30°	290.1	4.2
30°-40°	353.3	5.1
40°-50°	380.1	5.5
50°-60°	369.1	5.3
60°-70°	322.4	4.6
70°-80°	248.1	3.6
80°-90°	168.7	2.4
90°-100°	162.8	2.3
100°-110°	263.1	3.8
110°-120°	531.2	7.6
120°-130°	820.1	11.8
130°-140°	851.3	12.2
140°-150°	781.4	11.2
150°-160°	626.5	9.0
160°-170°	403.7	5.8
170°-180°	138.9	2.0
0°-30°	548.3	7.9
0°-40°	901.6	12.9
0°-60°	1650.8	23.7
0°-90°	2390.0	34.3
90°-120°	957.1	13.7
90°-150°	3409.9	48.9
90°-180°	4579.0	65.7
0°-180°	6968.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	706	703	697	703	702	67
15°	674	676	676	685	684	190
25°	612	620	629	641	644	282
35°	528	545	564	587	594	330
45°	433	460	496	528	538	334
55°	332	368	422	458	472	297
65°	227	277	337	379	392	225
75°	126	183	248	292	305	133
85°	37	100	165	208	222	39
90°	11	82	156	202	216	11
95°	77	90	159	203	214	88
105°	326	388	152	200	215	349
115°	611	641	713	255	190	602
125°	861	874	927	962	974	768
135°	1064	1080	1100	1132	1138	822
145°	1233	1232	1250	1263	1263	771
155°	1357	1348	1360	1367	1358	625
165°	1430	1424	1427	1434	1427	404
175°	1463	1456	1458	1465	1454	139
180°	1460	1460	1460	1460	1460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.2	704.2	704.2	704.2	704.2
2.5°	709.3	706.2	699.1	704.2	702.2
5°	706.2	703.2	697.1	703.2	702.2
7.5°	701.1	699.1	694.0	701.1	700.1
10°	695.0	693.0	689.9	698.1	697.1
12.5°	684.8	685.8	683.8	692.0	690.9
15°	673.6	675.6	675.6	684.8	683.8
17.5°	659.3	663.4	666.4	675.6	675.6
20°	645.0	650.1	654.2	665.4	665.4
22.5°	629.7	635.8	641.9	653.2	655.2
25°	612.4	619.5	628.7	640.9	644.0
27.5°	591.9	603.2	613.4	628.7	630.7
30°	571.5	584.8	598.1	614.4	617.5
32.5°	549.1	564.4	580.7	600.1	606.2
35°	527.6	545.0	564.4	586.8	594.0
37.5°	504.2	523.6	548.1	572.5	579.7
40°	480.7	503.1	530.7	557.2	566.4
42.5°	458.2	480.7	513.4	543.0	552.1
45°	432.7	460.3	496.0	527.6	537.8
47.5°	408.2	437.8	478.7	511.3	522.5
50°	382.7	414.4	460.3	495.0	506.2
52.5°	358.2	391.9	440.9	476.6	488.9
55°	331.7	368.4	421.5	458.2	471.5
57.5°	306.2	347.0	400.1	439.9	453.1
60°	278.6	322.5	380.7	419.5	433.7
62.5°	254.1	300.1	358.2	400.1	413.3
65°	226.6	276.6	336.8	378.6	391.9
67.5°	202.1	254.1	315.4	357.2	371.5
70°	175.5	228.6	291.9	335.8	348.0
72.5°	151.0	206.2	270.5	313.3	328.6
75°	125.5	182.7	248.0	291.9	305.2
77.5°	101.0	160.2	226.6	270.5	284.7
80°	76.5	138.8	205.1	248.0	262.3
82.5°	56.1	117.4	184.7	227.6	240.9
85°	36.7	100.0	165.3	208.2	222.5
87.5°	22.5	83.7	149.0	190.8	204.1
90°	11.3	82.1	155.8	201.9	216.3
92.5°	35.6	85.5	150.8	192.8	206.1
95°	76.9	89.9	158.6	202.6	213.8
97.5°	130.7	88.0	164.1	205.0	218.3
100°	194.1	87.1	162.3	208.5	221.8
102.5°	262.8	294.4	157.2	205.6	220.0
105°	326.2	387.5	152.2	199.5	215.0
107.5°	401.2	452.1	147.1	193.5	209.0
110°	472.0	514.6	259.3	186.4	201.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	539.6	574.9	604.0	181.3	195.7
115°	611.4	640.6	712.9	254.6	189.7
117.5°	672.8	702.0	762.8	642.4	375.9
120°	742.5	762.3	822.2	863.4	732.1
122.5°	801.6	819.5	878.3	912.3	922.5
125°	860.7	874.5	927.2	962.2	974.5
127.5°	915.7	929.4	972.9	1008.9	1019.2
130°	967.4	983.3	1016.4	1052.4	1059.6
132.5°	1020.2	1033.0	1059.9	1092.9	1100.0
135°	1063.6	1080.5	1100.2	1132.3	1138.2
137.5°	1110.1	1122.7	1138.4	1168.4	1172.4
140°	1155.5	1162.9	1176.5	1202.5	1203.3
142.5°	1193.5	1199.9	1213.6	1234.3	1234.1
145°	1232.6	1231.6	1249.5	1263.0	1262.9
147.5°	1267.5	1264.3	1282.3	1288.6	1287.4
150°	1301.3	1293.9	1310.8	1317.1	1311.9
152.5°	1329.8	1321.4	1337.2	1343.5	1336.2
155°	1357.3	1347.8	1360.4	1366.8	1358.3
157.5°	1379.5	1371.0	1380.5	1387.9	1379.5
160°	1398.5	1392.1	1398.5	1404.8	1397.4
162.5°	1415.4	1409.0	1414.3	1421.7	1412.2
165°	1430.2	1423.8	1427.0	1434.4	1427.0
167.5°	1441.8	1435.4	1438.6	1446.0	1436.5
170°	1451.3	1444.9	1447.1	1454.5	1444.9
172.5°	1457.6	1451.3	1453.4	1460.8	1451.3
175°	1462.9	1455.5	1457.6	1465.0	1454.5
177.5°	1465.0	1457.6	1458.7	1466.1	1456.6
180°	1459.7	1459.7	1459.7	1459.7	1459.7

(END OF REPORT)