

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: P1009240

Luminaire Tested: S122DIP-B675D1080UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009240
REPORT IS A COMBINATION OF REPORTS P984465 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D1080UB40-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

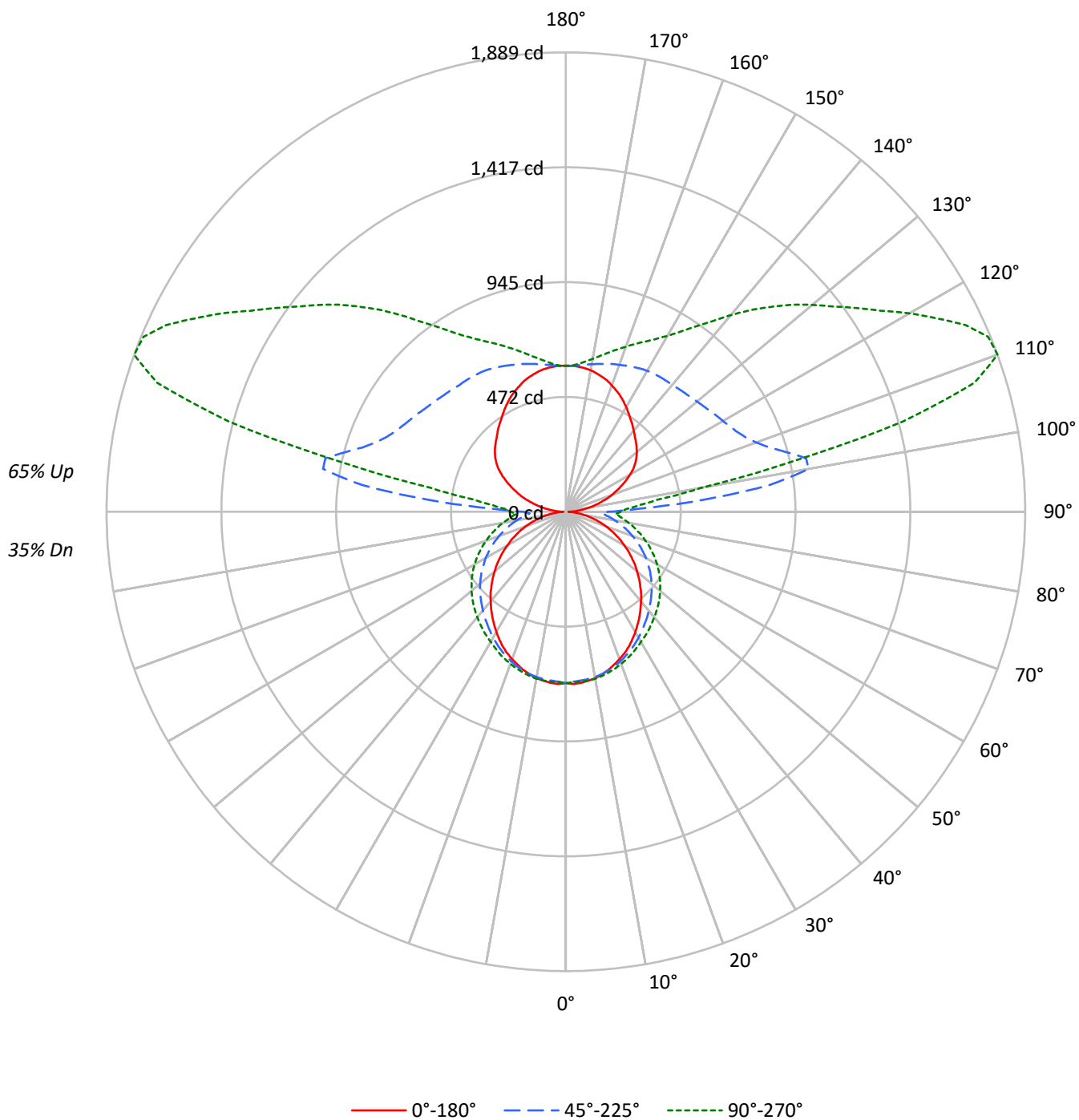
Lumens per Lamp: N/A
Luminaire Lumens: 6875.8 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42
1	93	89	84	81	84	80	76	73	64	61	59	49	47	46	36	34	33
2	85	77	70	65	76	69	64	59	55	51	48	43	40	37	31	29	27
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	27	25	23
4	70	59	51	45	63	53	46	41	43	38	34	33	29	26	24	21	19
5	64	52	44	38	57	47	40	35	38	33	29	29	26	23	21	19	17
6	59	47	39	33	53	42	35	30	34	29	25	26	23	20	19	17	15
7	54	42	34	28	49	38	31	26	31	26	22	24	20	17	17	15	13
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	13	11
9	47	35	27	22	42	31	25	20	26	20	17	20	16	14	15	12	10
10	44	32	24	20	39	29	22	18	23	19	15	18	15	12	14	11	9

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	2.8
20°-30°	290.1	4.2
30°-40°	353.3	5.1
40°-50°	380.1	5.5
50°-60°	369.1	5.4
60°-70°	322.4	4.7
70°-80°	248.1	3.6
80°-90°	170.0	2.5
90°-100°	358.0	5.2
100°-110°	906.3	13.2
110°-120°	920.0	13.4
120°-130°	741.9	10.8
130°-140°	584.3	8.5
140°-150°	433.8	6.3
150°-160°	303.4	4.4
160°-170°	178.7	2.6
170°-180°	58.1	0.8
0°-30°	548.3	8.0
0°-40°	901.6	13.1
0°-60°	1650.8	24.0
0°-90°	2391.3	34.8
90°-120°	2184.3	31.8
90°-150°	3944.2	57.4
90°-180°	4484.0	65.2
0°-180°	6875.8	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	85	174	213	226	10
95°	49	155	570	327	300	48
105°	146	247	943	1652	1436	155
115°	252	329	777	1569	1815	250
125°	348	412	723	1259	1460	310
135°	407	486	691	1038	1192	315
145°	464	533	676	846	930	291
155°	528	570	657	743	772	243
165°	575	592	629	667	678	162
175°	599	600	605	612	611	57
180°	600	600	600	600	600	

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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°	11.4	85.0	173.9	213.0	225.9
92.5°	26.5	118.2	303.3	247.2	248.0
95°	48.6	155.4	569.9	326.9	300.0
97.5°	67.1	182.0	847.8	490.8	380.7
100°	96.0	205.4	1014.0	822.6	564.2
102.5°	121.5	226.8	1012.6	1286.0	948.6
105°	145.9	247.1	943.2	1652.4	1435.6
107.5°	173.6	267.4	878.2	1779.8	1761.1
110°	200.3	288.2	832.9	1749.8	1889.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.7	309.0	800.4	1668.2	1879.6
115°	252.3	328.7	776.9	1568.9	1815.0
117.5°	279.0	349.4	760.5	1474.5	1721.3
120°	304.4	369.6	746.4	1388.4	1632.3
122.5°	328.6	391.4	735.5	1320.7	1537.7
125°	348.3	411.8	722.7	1258.8	1460.1
127.5°	365.6	432.2	713.1	1203.8	1386.2
130°	380.6	451.2	704.7	1149.3	1323.7
132.5°	394.5	469.6	697.4	1093.1	1260.0
135°	407.3	485.8	691.1	1038.1	1191.7
137.5°	420.0	499.7	686.0	982.4	1124.7
140°	435.0	511.4	680.7	932.6	1055.3
142.5°	450.0	521.8	678.7	885.4	986.9
145°	464.0	533.3	676.4	845.8	930.0
147.5°	480.2	542.6	673.0	811.3	877.9
150°	496.4	551.8	669.5	785.0	834.6
152.5°	512.5	561.0	663.7	763.6	801.1
155°	527.5	569.6	656.8	742.8	772.2
157.5°	540.2	576.6	649.9	723.2	746.8
160°	552.9	583.6	643.0	703.6	722.6
162.5°	565.6	588.7	637.2	685.1	699.5
165°	574.9	592.2	629.1	667.2	677.6
167.5°	582.9	595.6	622.2	651.0	656.8
170°	591.0	597.4	616.4	636.0	638.3
172.5°	595.6	599.0	609.5	622.8	623.3
175°	599.1	599.7	604.9	612.3	610.6
177.5°	601.4	600.2	600.2	604.9	601.4
180°	600.2	600.2	600.2	600.2	600.2

(END OF REPORT)