

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: P1009239

Luminaire Tested: S122DIP-B675D1080UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009239
REPORT IS A COMBINATION OF REPORTS P984464 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-D1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

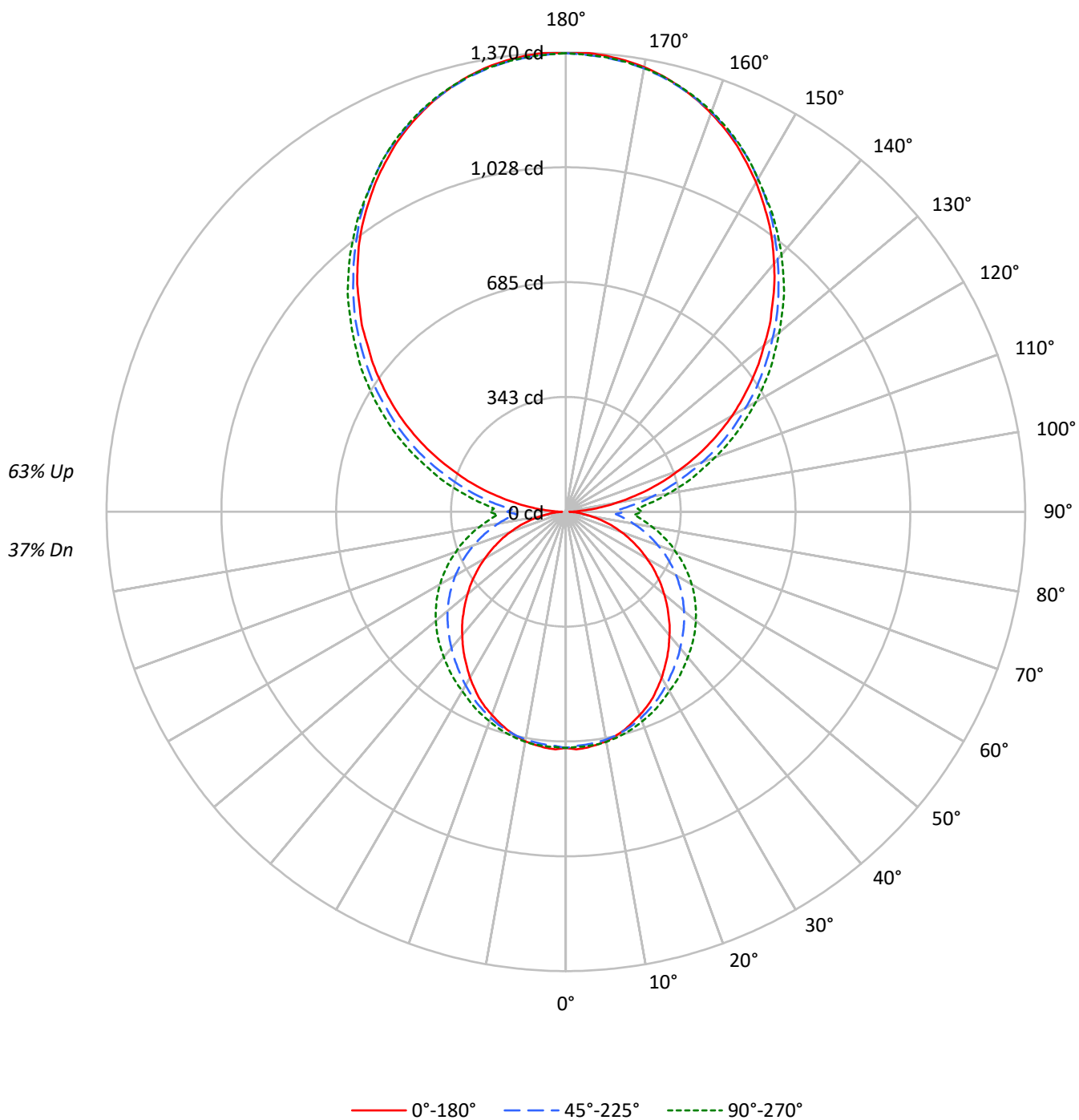
Lumens per Lamp: N/A
Luminaire Lumens: 6515.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37		
1	94	89	85	81	85	81	77	74	65	62	60	50	49	47	37	36	35	29		
2	85	77	71	65	76	70	64	60	56	52	49	44	41	38	32	30	28	23		
3	77	67	60	54	69	61	54	49	49	44	40	38	35	32	28	26	24	19		
4	70	59	51	45	63	54	47	41	43	38	34	34	30	27	25	22	20	16		
5	64	53	44	38	58	48	41	35	39	33	29	30	26	23	22	19	17	14		
6	59	47	39	33	53	43	35	30	35	29	25	27	23	20	20	17	15	12		
7	55	42	34	29	49	38	31	26	31	26	22	24	21	18	18	15	13	10		
8	51	38	30	25	46	35	28	23	28	23	19	22	18	16	17	14	12	9		
9	47	35	27	22	42	32	25	20	26	21	17	20	17	14	15	13	11	8		
10	44	32	25	20	40	29	23	18	24	19	15	19	15	12	14	12	10	8		

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	2.9
20°-30°	290.1	4.5
30°-40°	353.3	5.4
40°-50°	380.1	5.8
50°-60°	369.1	5.7
60°-70°	322.4	4.9
70°-80°	248.1	3.8
80°-90°	170.1	2.6
90°-100°	199.2	3.1
100°-110°	352.7	5.4
110°-120°	515.6	7.9
120°-130°	636.1	9.8
130°-140°	692.4	10.6
140°-150°	668.5	10.3
150°-160°	558.9	8.6
160°-170°	370.7	5.7
170°-180°	129.6	2.0
0°-30°	548.3	8.4
0°-40°	901.6	13.8
0°-60°	1650.8	25.3
0°-90°	2391.3	36.7
90°-120°	1067.5	16.4
90°-150°	3064.5	47.0
90°-180°	4124.0	63.3
0°-180°	6515.0	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	84	175	214	227	11
95°	68	128	191	230	240	73
105°	253	286	342	380	391	268
115°	466	484	528	557	565	460
125°	674	684	713	738	746	602
135°	870	883	895	916	920	673
145°	1055	1063	1070	1077	1078	659
155°	1206	1210	1213	1219	1215	555
165°	1312	1311	1311	1319	1314	370
175°	1366	1362	1360	1368	1361	130
180°	1368	1368	1368	1368	1368	

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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	84.4	175.1	213.6	227.0
92.5°	34.6	97.9	161.3	202.2	214.5
95°	68.2	127.7	191.3	230.0	240.0
97.5°	107.5	161.8	225.6	263.4	275.6
100°	153.7	200.7	261.4	299.1	309.1
102.5°	201.2	241.8	301.5	339.5	349.5
105°	253.3	286.3	341.7	379.7	390.9
107.5°	306.4	335.5	386.5	422.3	427.9
110°	356.1	383.5	433.5	466.2	473.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	411.6	434.8	480.6	509.8	518.7
115°	465.8	483.9	527.5	557.1	564.8
117.5°	519.1	536.4	573.5	600.7	607.4
120°	573.3	586.5	618.2	646.7	654.5
122.5°	622.9	635.5	667.4	691.5	698.4
125°	673.8	684.2	713.4	737.5	745.5
127.5°	724.6	736.3	759.2	780.1	785.9
130°	771.9	785.9	805.1	827.2	830.8
132.5°	825.0	835.5	852.0	869.7	874.5
135°	870.2	882.9	895.4	915.7	920.3
137.5°	920.9	931.3	938.7	957.0	959.6
140°	966.0	975.4	983.1	999.5	1001.0
142.5°	1012.1	1021.5	1025.0	1038.3	1038.8
145°	1055.0	1063.1	1070.0	1077.3	1077.7
147.5°	1094.2	1104.6	1109.2	1112.6	1111.0
150°	1134.6	1141.6	1146.2	1149.6	1146.2
152.5°	1170.4	1177.3	1183.1	1187.7	1183.1
155°	1206.2	1209.7	1213.1	1218.9	1215.4
157.5°	1237.4	1239.7	1242.0	1250.1	1244.3
160°	1265.1	1267.4	1268.5	1275.5	1270.8
162.5°	1290.5	1290.5	1291.6	1299.7	1293.9
165°	1312.4	1311.2	1311.2	1319.3	1313.5
167.5°	1332.0	1328.6	1328.6	1336.6	1330.9
170°	1347.0	1343.6	1342.4	1350.5	1343.6
172.5°	1357.4	1353.9	1352.8	1360.9	1353.9
175°	1365.5	1362.0	1359.7	1367.8	1360.9
177.5°	1370.1	1366.6	1364.3	1371.3	1364.3
180°	1367.8	1367.8	1367.8	1367.8	1367.8

(END OF REPORT)