

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: P1009246

Luminaire Tested: S122DIP-B675D1080UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009246
REPORT IS A COMBINATION OF REPORTS P984472 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D1080UB50-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

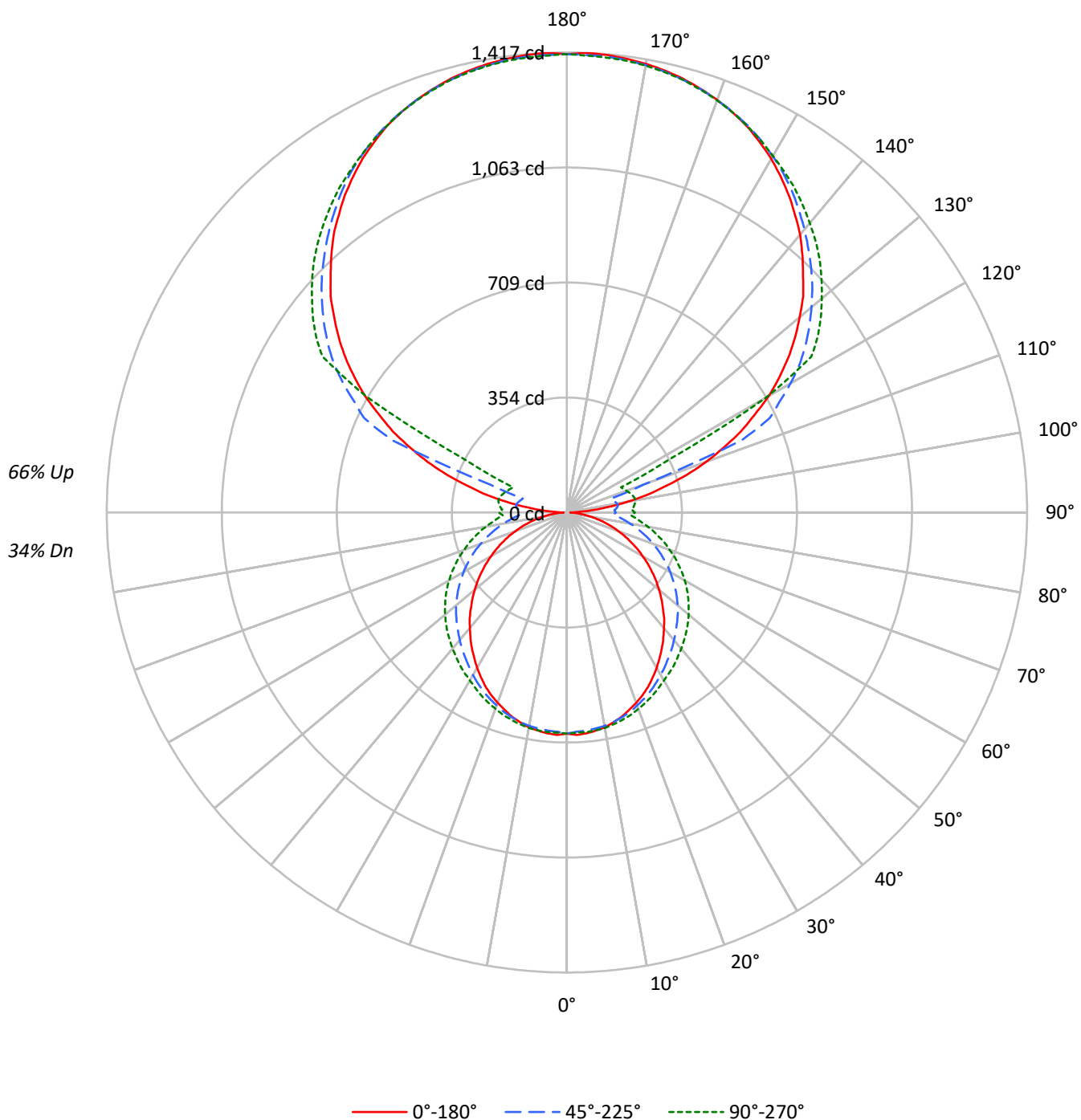
Lumens per Lamp: N/A
Luminaire Lumens: 6739.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10778	10778	10778
5°	10827	10318	10260
10°	10754	9961	9815
15°	10602	9592	9359
20°	10410	9202	8927
25°	10222	8832	8535
30°	9957	8454	8146
35°	9689	8089	7860
40°	9407	7774	7577
45°	9138	7489	7329
50°	8848	7225	7085
55°	8545	6945	6838
60°	8175	6655	6577
65°	7789	6319	6275
70°	7349	5960	5953
75°	6791	5601	5646
80°	5908	5226	5331
85°	5015	4876	5058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.0
10°-20°	185.1	2.7
20°-30°	280.5	4.2
30°-40°	341.6	5.1
40°-50°	367.5	5.5
50°-60°	356.9	5.3
60°-70°	311.7	4.6
70°-80°	239.9	3.6
80°-90°	163.2	2.4
90°-100°	157.4	2.3
100°-110°	254.5	3.8
110°-120°	513.7	7.6
120°-130°	793.1	11.8
130°-140°	823.3	12.2
140°-150°	755.7	11.2
150°-160°	605.8	9.0
160°-170°	390.4	5.8
170°-180°	134.4	2.0
0°-30°	530.2	7.9
0°-40°	871.7	12.9
0°-60°	1596.1	23.7
0°-90°	2310.8	34.3
90°-120°	925.6	13.7
90°-150°	3297.6	48.9
90°-180°	4428.0	65.7
0°-180°	6739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	683	680	674	680	679	65
15°	651	653	653	662	661	183
25°	592	599	608	620	623	272
35°	510	527	546	567	574	319
45°	418	445	480	510	520	323
55°	321	356	408	443	456	287
65°	219	267	326	366	379	218
75°	121	177	240	282	295	128
85°	36	97	160	201	215	37
90°	11	79	151	195	209	11
95°	74	87	153	196	207	85
105°	315	375	147	193	208	337
115°	591	620	689	246	184	582
125°	832	846	897	930	942	743
135°	1029	1045	1064	1095	1101	795
145°	1192	1191	1208	1221	1221	746
155°	1313	1303	1316	1322	1314	605
165°	1383	1377	1380	1387	1380	391
175°	1415	1408	1410	1417	1407	135
180°	1412	1412	1412	1412	1412	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.9	680.9	680.9	680.9	680.9
2.5°	685.8	682.9	675.9	680.9	678.9
5°	682.9	679.9	674.0	679.9	678.9
7.5°	677.9	675.9	671.0	677.9	676.9
10°	672.0	670.0	667.1	675.0	674.0
12.5°	662.1	663.1	661.1	669.0	668.1
15°	651.3	653.3	653.3	662.1	661.1
17.5°	637.5	641.4	644.4	653.3	653.3
20°	623.6	628.6	632.5	643.4	643.4
22.5°	608.8	614.8	620.7	631.5	633.5
25°	592.1	599.0	607.9	619.7	622.7
27.5°	572.3	583.2	593.1	607.9	609.8
30°	552.6	565.4	578.3	594.0	597.0
32.5°	530.9	545.7	561.5	580.2	586.1
35°	510.2	526.9	545.7	567.4	574.3
37.5°	487.5	506.2	529.9	553.6	560.5
40°	464.8	486.5	513.1	538.8	547.7
42.5°	443.1	464.8	496.4	525.0	533.8
45°	418.4	445.0	479.6	510.2	520.0
47.5°	394.7	423.3	462.8	494.4	505.2
50°	370.0	400.6	445.0	478.6	489.4
52.5°	346.4	378.9	426.3	460.8	472.7
55°	320.7	356.2	407.5	443.1	455.9
57.5°	296.0	335.5	386.8	425.3	438.1
60°	269.4	311.8	368.1	405.6	419.4
62.5°	245.7	290.1	346.4	386.8	399.6
65°	219.1	267.4	325.6	366.1	378.9
67.5°	195.4	245.7	304.9	345.4	359.2
70°	169.7	221.0	282.2	324.7	336.5
72.5°	146.0	199.3	261.5	302.9	317.7
75°	121.4	176.6	239.8	282.2	295.0
77.5°	97.7	154.9	219.1	261.5	275.3
80°	74.0	134.2	198.3	239.8	253.6
82.5°	54.3	113.5	178.6	220.1	232.9
85°	35.5	96.7	159.9	201.3	215.1
87.5°	21.7	80.9	144.1	184.5	197.4
90°	10.9	79.4	150.7	195.2	209.2
92.5°	34.4	82.7	145.9	186.5	199.3
95°	74.3	87.0	153.3	195.9	206.7
97.5°	126.4	85.1	158.7	198.3	211.1
100°	187.7	84.3	156.9	201.6	214.4
102.5°	254.1	284.7	152.1	198.8	212.7
105°	315.4	374.8	147.2	192.9	207.9
107.5°	388.0	437.2	142.4	187.1	202.1
110°	456.4	497.7	250.8	180.2	195.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	521.8	556.0	584.0	175.4	189.3
115°	591.2	619.5	689.4	246.1	183.5
117.5°	650.6	678.9	737.7	621.2	363.5
120°	718.0	737.2	795.1	835.0	708.0
122.5°	775.2	792.5	849.5	882.2	892.2
125°	832.5	845.7	896.7	930.5	942.5
127.5°	885.6	898.9	940.8	975.7	985.6
130°	935.6	951.0	982.9	1017.8	1024.7
132.5°	986.7	999.0	1025.0	1056.9	1063.8
135°	1028.6	1044.9	1064.0	1094.9	1100.8
137.5°	1073.5	1085.8	1100.9	1129.9	1133.8
140°	1117.5	1124.6	1137.9	1162.9	1163.7
142.5°	1154.2	1160.4	1173.7	1193.6	1193.5
145°	1192.1	1191.0	1208.4	1221.4	1221.3
147.5°	1225.8	1222.7	1240.1	1246.2	1245.0
150°	1258.4	1251.3	1267.6	1273.8	1268.7
152.5°	1286.0	1277.9	1293.2	1299.3	1292.2
155°	1312.6	1303.4	1315.7	1321.8	1313.6
157.5°	1334.0	1325.9	1335.1	1342.2	1334.0
160°	1352.4	1346.3	1352.4	1358.6	1351.4
162.5°	1368.8	1362.6	1367.7	1374.9	1365.7
165°	1383.1	1376.9	1380.0	1387.2	1380.0
167.5°	1394.3	1388.2	1391.2	1398.4	1389.2
170°	1403.5	1397.4	1399.4	1406.6	1397.4
172.5°	1409.6	1403.5	1405.5	1412.7	1403.5
175°	1414.7	1407.6	1409.6	1416.8	1406.6
177.5°	1416.8	1409.6	1410.6	1417.8	1408.6
180°	1411.7	1411.7	1411.7	1411.7	1411.7

(END OF REPORT)