

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: P1008711

Luminaire Tested: S122DIP-B1005D725UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008711
REPORT IS A COMBINATION OF REPORTS P983748 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D725UB40-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

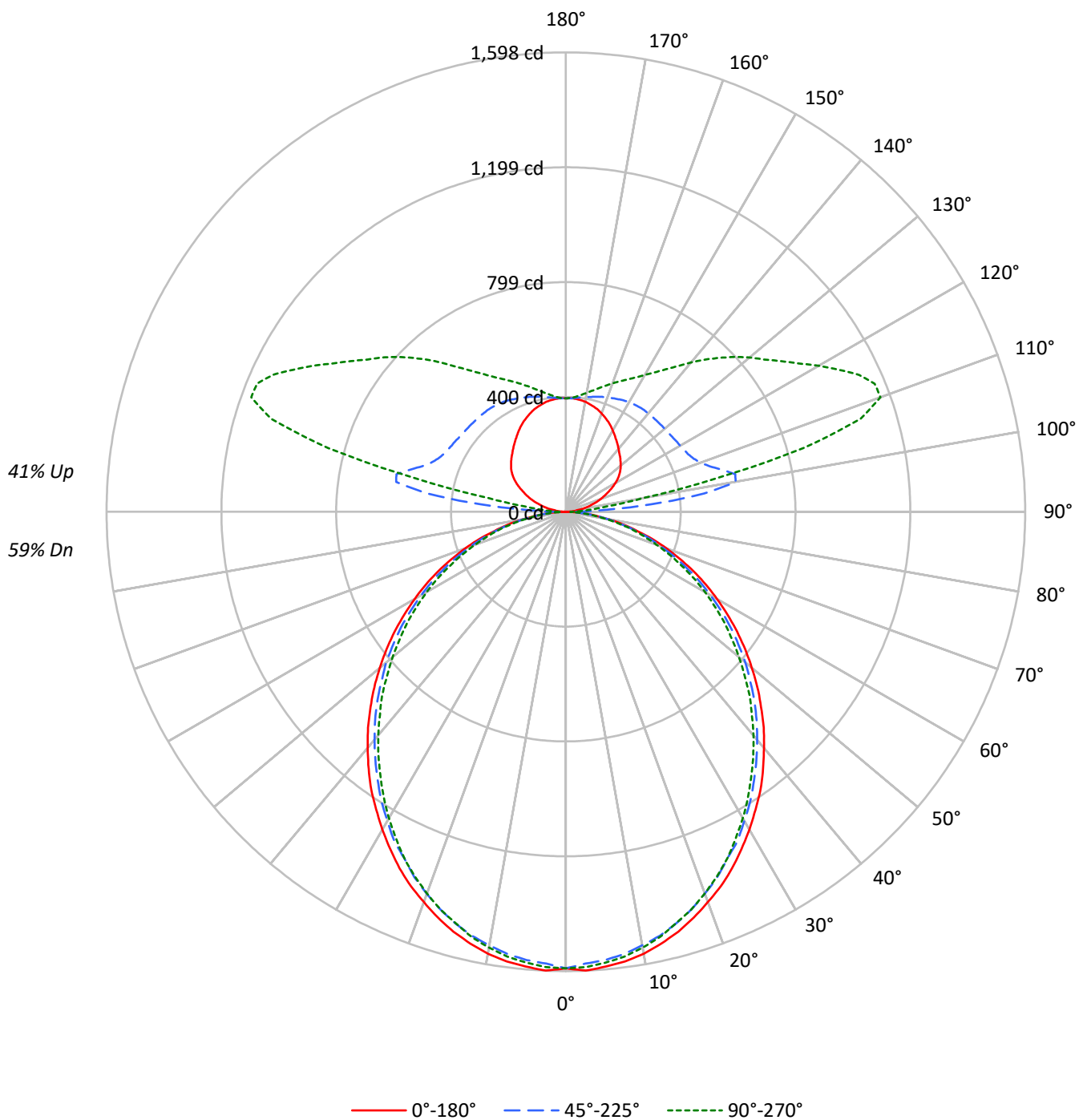
Lumens per Lamp: N/A
Luminaire Lumens: 6796.1 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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

TEST NUMBER: P1008711

CATALOG NUMBER: S122DIP-B1005D725UB40-4F0-XX-W2A-F4

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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39
4	76	65	57	51	71	61	54	48	53	48	43	47	42	39	40	37	34
5	70	58	50	44	65	54	47	42	48	42	37	42	37	33	36	32	30
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23
8	55	43	35	30	52	40	33	28	36	30	26	32	27	23	27	24	21
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	25	22	19
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25142	25142	25142
5°	25183	23965	23795
10°	24979	22873	22420
15°	24613	21773	20971
20°	24118	20575	19601
25°	23625	19325	18232
30°	23005	18152	16796
35°	22421	16912	15385
40°	21698	15689	14051
45°	20979	14475	12743
50°	20197	13242	11386
55°	19372	11922	10101
60°	18443	10493	8766
65°	17426	9040	7360
70°	16136	7451	5944
75°	14354	5744	4590
80°	12191	3903	2954
85°	8843	1817	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20979 cd/sqm

TEST NUMBER: P1008711

CATALOG NUMBER: S122DIP-B1005D725UB40-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.2
10°-20°	420.6	6.2
20°-30°	618.1	9.1
30°-40°	717.9	10.6
40°-50°	717.0	10.6
50°-60°	625.2	9.2
60°-70°	462.2	6.8
70°-80°	261.5	3.8
80°-90°	71.5	1.1
90°-100°	160.1	2.4
100°-110°	541.1	8.0
110°-120°	568.7	8.4
120°-130°	467.7	6.9
130°-140°	375.8	5.5
140°-150°	283.9	4.2
150°-160°	199.6	2.9
160°-170°	117.5	1.7
170°-180°	38.2	0.6
0°-30°	1188.2	17.5
0°-40°	1906.1	28.0
0°-60°	3248.3	47.8
0°-90°	4043.5	59.5
90°-120°	1269.9	18.7
90°-150°	2397.3	35.3
90°-180°	2753.0	40.5
0°-180°	6796.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1588	1582	1565	1578	1575	151
15°	1512	1503	1483	1489	1481	426
25°	1368	1356	1330	1333	1330	630
35°	1181	1165	1141	1132	1124	737
45°	961	950	927	910	904	741
55°	727	718	700	681	674	650
65°	490	481	466	452	444	485
75°	257	254	246	237	240	274
85°	63	61	60	55	54	70
90°	1	10	26	25	25	6
95°	27	65	298	112	87	27
105°	93	140	563	1006	856	98
115°	163	206	471	972	1126	162
125°	228	270	452	787	913	202
135°	267	319	447	661	757	206
145°	305	351	445	552	604	191
155°	347	375	432	489	508	160
165°	378	390	414	439	446	107
175°	394	394	398	403	402	37
180°	395	395	395	395	395	

TEST NUMBER: P1008711

CATALOG NUMBER: S122DIP-B1005D725UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.3	1588.3	1588.3	1588.3	1588.3
2.5°	1597.5	1589.9	1573.1	1588.3	1585.3
5°	1588.3	1582.2	1565.4	1577.7	1574.6
7.5°	1577.7	1568.5	1551.7	1563.9	1560.9
10°	1560.9	1550.2	1531.8	1544.1	1539.5
12.5°	1537.9	1528.8	1510.5	1518.1	1515.0
15°	1512.0	1502.8	1483.0	1489.1	1481.4
17.5°	1479.9	1470.7	1450.9	1458.5	1450.9
20°	1444.8	1435.6	1414.2	1418.8	1412.7
22.5°	1409.7	1395.9	1376.1	1376.1	1373.0
25°	1368.4	1356.2	1330.2	1333.3	1330.2
27.5°	1322.6	1311.9	1292.1	1287.5	1279.8
30°	1276.8	1264.6	1241.7	1237.1	1231.0
32.5°	1227.9	1218.7	1194.3	1185.1	1179.0
35°	1180.6	1165.3	1140.9	1131.7	1124.1
37.5°	1127.1	1113.4	1088.9	1078.2	1070.6
40°	1072.1	1059.9	1035.5	1021.7	1015.6
42.5°	1018.7	1006.5	982.0	966.8	957.6
45°	960.6	950.0	927.0	910.2	904.1
47.5°	904.1	893.4	869.0	852.2	843.0
50°	844.6	836.9	815.6	794.2	786.5
52.5°	786.5	775.8	756.0	739.2	728.5
55°	727.0	717.8	699.5	681.2	673.5
57.5°	667.4	659.8	639.9	621.6	615.5
60°	607.8	601.7	580.4	563.6	559.0
62.5°	549.8	539.1	523.8	508.6	502.5
65°	490.2	481.1	465.8	452.1	444.4
67.5°	429.2	421.5	407.8	397.1	391.0
70°	372.6	366.5	352.8	342.1	336.0
72.5°	314.6	308.5	300.9	290.2	285.6
75°	256.6	253.5	245.9	236.7	239.8
77.5°	204.7	198.5	195.5	190.9	186.3
80°	152.7	151.2	148.1	143.6	140.5
82.5°	103.9	103.9	102.3	96.2	96.2
85°	62.6	61.1	59.6	55.0	53.5
87.5°	27.5	24.4	21.4	16.8	15.3
90°	0.8	10.2	25.8	24.7	25.1
92.5°	11.4	36.0	116.9	53.9	46.3
95°	26.6	65.3	297.6	112.4	86.6
97.5°	39.5	86.2	485.2	225.5	145.0
100°	58.5	105.6	599.8	449.1	271.8
102.5°	75.9	123.0	603.6	759.2	530.0
105°	92.6	139.7	562.6	1005.6	855.7
107.5°	110.9	156.4	524.6	1094.8	1075.1
110°	129.1	173.5	498.8	1080.4	1164.7



TEST NUMBER: P1008711

CATALOG NUMBER: S122DIP-B1005D725UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.8	189.8	482.1	1031.4	1163.2
115°	163.2	206.2	470.7	971.5	1126.0
117.5°	181.5	222.4	464.7	914.1	1069.8
120°	198.2	238.4	459.3	862.8	1015.9
122.5°	214.1	254.7	456.3	823.0	959.7
125°	227.8	269.5	452.5	787.0	913.4
127.5°	239.2	283.6	450.2	756.2	870.1
130°	249.0	296.1	448.7	725.0	834.4
132.5°	258.1	308.2	448.0	692.8	797.2
135°	267.3	318.9	447.2	661.3	757.0
137.5°	275.6	328.0	447.2	629.4	718.2
140°	285.5	336.4	446.4	601.3	678.0
142.5°	295.3	343.2	446.4	574.4	637.8
145°	305.2	350.8	444.9	552.3	604.4
147.5°	315.8	356.8	442.6	533.0	574.8
150°	326.5	363.0	440.4	516.3	548.9
152.5°	337.1	369.0	436.6	502.2	526.9
155°	347.0	374.7	432.0	488.6	507.9
157.5°	355.3	379.2	427.5	475.7	491.2
160°	363.7	383.8	422.9	462.8	475.3
162.5°	372.0	387.2	419.1	450.6	460.1
165°	378.1	389.5	413.8	438.8	445.7
167.5°	383.4	391.8	409.2	428.2	432.0
170°	388.7	393.0	405.4	418.4	419.9
172.5°	391.8	394.0	400.9	409.6	410.0
175°	394.1	394.5	397.8	402.8	401.6
177.5°	395.6	394.8	394.8	397.8	395.6
180°	394.8	394.8	394.8	394.8	394.8

(END OF REPORT)