

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: P1009770

Luminaire Tested: S122RDIP-B1005D725UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009770
REPORT IS A COMBINATION OF REPORTS P987976 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B1005D725UB50-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

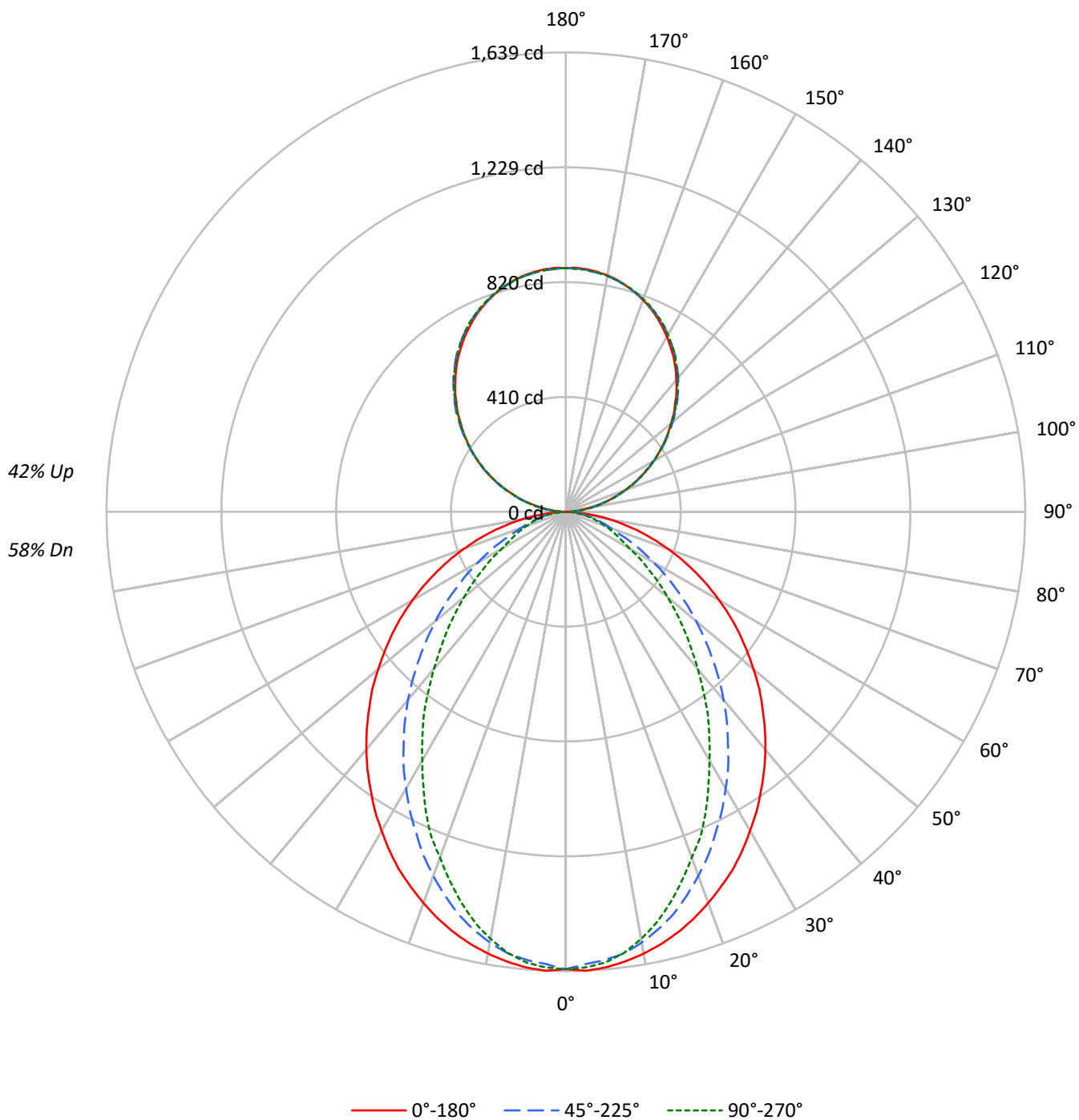
Lumens per Lamp: N/A
Luminaire Lumens: 5790.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	100	96	92	89	93	90	86	84	78	75	73	67	65	64	57	56	55
2	92	84	79	74	85	79	74	69	69	65	62	59	57	54	51	49	47
3	84	75	68	62	78	70	64	59	61	56	52	53	49	46	46	43	41
4	77	67	59	53	72	63	56	50	55	49	45	48	44	40	41	38	35
5	71	60	52	46	66	56	49	44	49	44	39	43	39	35	37	34	31
6	66	54	46	40	61	51	44	38	45	39	35	39	35	31	34	31	28
7	61	49	41	35	57	46	39	34	41	35	31	36	31	28	31	28	25
8	57	44	37	32	53	42	35	30	37	32	28	33	28	25	29	25	23
9	53	41	33	28	49	39	32	27	34	29	25	30	26	23	27	23	21
10	50	38	30	26	46	36	29	25	32	26	23	28	24	21	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25830	25830	25830
5°	25872	24574	24392
10°	25617	23307	22538
15°	25266	21811	20425
20°	24800	20110	18215
25°	24322	18365	16192
30°	23681	16665	13984
35°	23054	14951	12087
40°	22417	13268	10134
45°	21674	11530	8430
50°	20905	9854	6862
55°	20107	8179	5449
60°	19178	6541	4123
65°	18112	4988	3351
70°	16820	3618	2664
75°	15199	2759	2035
80°	12854	1868	1367
85°	8970	857	661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	2.6
10°-20°	419.8	7.3
20°-30°	589.4	10.2
30°-40°	642.5	11.1
40°-50°	590.5	10.2
50°-60°	463.8	8.0
60°-70°	301.9	5.2
70°-80°	155.4	2.7
80°-90°	42.2	0.7
90°-100°	53.8	0.9
100°-110°	171.0	3.0
110°-120°	292.7	5.1
120°-130°	384.9	6.6
130°-140°	432.0	7.5
140°-150°	423.7	7.3
150°-160°	355.4	6.1
160°-170°	235.7	4.1
170°-180°	82.4	1.4
0°-30°	1162.2	20.1
0°-40°	1804.7	31.2
0°-60°	2859.0	49.4
0°-90°	3358.4	58.0
90°-120°	517.5	8.9
90°-150°	1758.1	30.4
90°-180°	2432.0	42.0
0°-180°	5790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1632	1624	1605	1618	1614	155
15°	1552	1536	1486	1458	1443	437
25°	1409	1362	1264	1204	1181	648
35°	1214	1139	1009	916	883	760
45°	992	893	738	634	598	766
55°	755	639	480	391	363	674
65°	510	390	257	207	202	505
75°	272	168	118	108	106	287
85°	64	32	28	28	28	73
90°	1	10	26	24	25	6
95°	38	46	47	47	46	43
105°	158	160	162	163	163	167
115°	294	298	296	296	294	290
125°	427	434	432	429	429	382
135°	553	561	562	562	559	427
145°	671	676	680	681	678	419
155°	767	769	771	775	773	353
165°	834	834	834	839	835	235
175°	868	866	865	870	865	82
180°	870	870	870	870	870	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.8	1631.8	1631.8	1631.8	1631.8
2.5°	1639.2	1631.8	1615.6	1630.3	1627.4
5°	1631.8	1624.4	1605.2	1618.5	1614.1
7.5°	1618.5	1609.6	1589.0	1594.9	1587.5
10°	1600.8	1590.4	1560.9	1556.5	1547.6
12.5°	1578.6	1565.3	1525.5	1516.6	1500.4
15°	1552.1	1535.8	1485.6	1457.5	1442.8
17.5°	1521.0	1497.4	1435.4	1402.9	1379.3
20°	1485.6	1456.1	1382.2	1345.3	1312.8
22.5°	1447.2	1413.2	1327.6	1277.4	1255.2
25°	1408.8	1361.6	1264.1	1203.5	1181.4
27.5°	1363.0	1312.8	1205.0	1135.6	1101.6
30°	1314.3	1258.2	1140.0	1064.7	1024.9
32.5°	1267.0	1199.1	1078.0	989.4	952.5
35°	1213.9	1138.6	1008.6	915.6	883.1
37.5°	1162.2	1081.0	943.6	841.7	804.8
40°	1107.6	1019.0	875.7	770.9	732.5
42.5°	1051.4	956.9	807.8	698.5	661.6
45°	992.4	893.4	738.4	633.5	598.1
47.5°	936.3	831.4	671.9	567.1	534.6
50°	874.2	769.4	606.9	505.0	474.0
52.5°	813.7	702.9	544.9	447.5	419.4
55°	754.6	639.4	479.9	391.3	363.3
57.5°	694.1	575.9	422.3	339.7	316.0
60°	632.0	513.9	361.8	286.5	262.9
62.5°	571.5	453.4	310.1	239.2	227.4
65°	509.5	389.9	257.0	206.7	202.3
67.5°	450.4	330.8	206.7	181.6	177.2
70°	388.4	273.2	171.3	156.5	150.6
72.5°	329.3	220.0	143.2	131.4	128.5
75°	271.7	168.3	118.1	107.8	106.3
77.5°	214.1	119.6	93.0	87.1	84.2
80°	161.0	85.7	70.9	65.0	65.0
82.5°	112.2	57.6	48.7	45.8	45.8
85°	63.5	32.5	28.1	28.1	28.1
87.5°	23.6	11.8	11.8	10.3	10.3
90°	0.7	9.5	25.7	24.2	25.0
92.5°	16.1	22.0	22.8	23.5	23.5
95°	38.2	45.5	47.0	47.0	45.5
97.5°	63.9	70.5	73.4	73.4	73.4
100°	93.2	99.1	101.3	101.3	100.5
102.5°	124.0	128.4	131.4	132.1	131.4
105°	157.8	160.0	161.5	162.9	162.9
107.5°	191.6	194.5	194.5	195.2	191.6
110°	223.8	228.3	228.3	228.3	226.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.1	263.5	262.7	260.5	259.1
115°	293.6	298.0	296.5	295.8	293.6
117.5°	328.1	333.9	330.3	328.1	325.9
120°	362.6	368.4	362.6	362.6	360.4
122.5°	394.1	401.5	397.8	395.6	394.1
125°	427.1	433.8	431.5	429.3	428.6
127.5°	459.4	467.5	464.6	461.6	459.4
130°	489.5	499.1	497.6	496.1	493.2
132.5°	523.3	530.6	531.4	527.7	525.5
135°	552.6	560.7	562.2	561.5	559.3
137.5°	584.9	591.5	593.0	592.3	589.3
140°	613.6	620.2	623.8	623.8	620.9
142.5°	642.9	649.5	651.7	652.5	649.5
145°	670.8	675.9	680.4	681.1	678.1
147.5°	695.8	702.4	705.3	706.8	703.8
150°	721.4	725.9	728.8	731.0	728.8
152.5°	744.2	748.6	752.3	755.2	752.3
155°	767.0	769.2	771.4	775.0	772.8
157.5°	786.8	788.2	789.7	794.8	791.2
160°	804.4	805.9	806.6	811.0	808.1
162.5°	820.5	820.5	821.3	826.4	822.7
165°	834.5	833.7	833.7	838.9	835.2
167.5°	847.0	844.7	844.7	849.9	846.2
170°	856.5	854.3	853.6	858.7	854.3
172.5°	863.1	860.9	860.2	865.3	860.9
175°	868.2	866.0	864.6	869.7	865.3
177.5°	871.2	869.0	867.5	871.9	867.5
180°	869.7	869.7	869.7	869.7	869.7

(END OF REPORT)