

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: P1010203

Luminaire Tested: S122RDIP-B675D725UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010203
REPORT IS A COMBINATION OF REPORTS P988565 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B675D725UB35-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

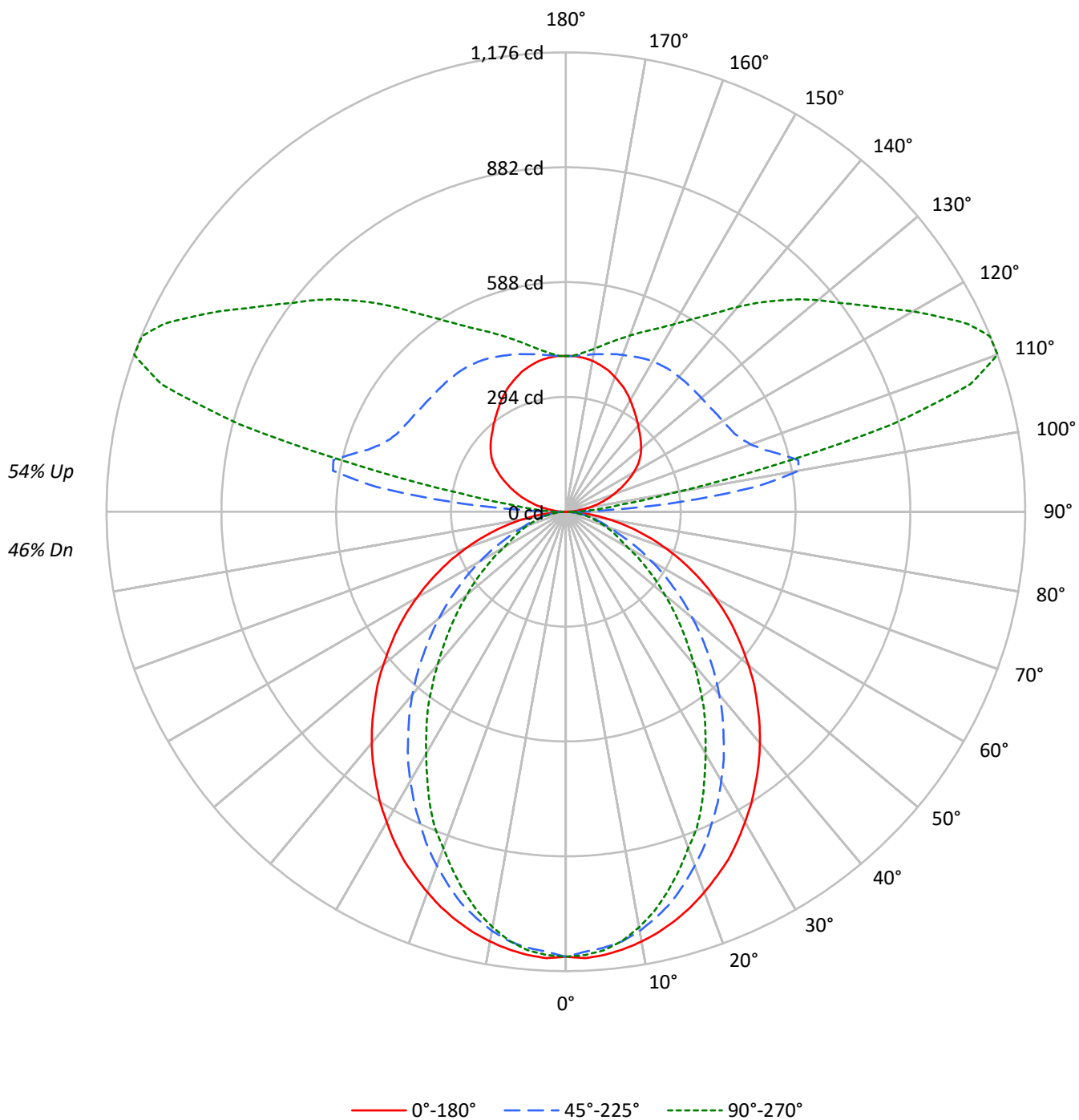
Lumens per Lamp: N/A
Luminaire Lumens: 5124.2 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	97	93	89	86	89	86	82	80	72	69	67	59	57	56	47	46	45
2	89	82	76	71	81	75	70	66	63	60	56	52	50	47	42	40	39
3	81	72	65	60	74	67	61	56	56	52	48	46	43	40	37	35	33
4	75	64	57	51	68	59	53	48	50	45	41	42	38	35	34	31	29
5	69	57	50	44	63	53	46	41	45	40	36	38	34	31	31	28	26
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23
7	59	47	39	34	54	43	37	32	37	32	28	31	27	24	26	23	20
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	18
9	51	39	32	27	47	36	30	25	31	26	22	26	22	20	22	19	17
10	47	36	29	24	44	33	27	23	29	24	20	24	20	18	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18026	18026	18026
5°	18056	17149	17022
10°	17877	16265	15728
15°	17631	15221	14253
20°	17306	14034	12712
25°	16973	12817	11299
30°	16526	11630	9758
35°	16088	10434	8435
40°	15643	9259	7072
45°	15124	8046	5883
50°	14590	6877	4789
55°	14032	5708	3802
60°	13385	4565	2876
65°	12638	3480	2339
70°	11736	2524	1859
75°	10606	1925	1420
80°	8966	1304	952
85°	6258	598	461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15124 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	2.1
10°-20°	293.0	5.7
20°-30°	411.3	8.0
30°-40°	448.4	8.8
40°-50°	412.1	8.0
50°-60°	323.6	6.3
60°-70°	210.7	4.1
70°-80°	108.4	2.1
80°-90°	30.2	0.6
90°-100°	161.6	3.2
100°-110°	546.4	10.7
110°-120°	574.3	11.2
120°-130°	472.3	9.2
130°-140°	379.5	7.4
140°-150°	286.7	5.6
150°-160°	201.6	3.9
160°-170°	118.7	2.3
170°-180°	38.6	0.8
0°-30°	811.1	15.8
0°-40°	1259.4	24.6
0°-60°	1995.2	38.9
0°-90°	2344.5	45.8
90°-120°	1282.3	25.0
90°-150°	2420.8	47.2
90°-180°	2780.0	54.3
0°-180°	5124.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1139	1134	1120	1130	1126	108
15°	1083	1072	1037	1017	1007	305
25°	983	950	882	840	824	452
35°	847	795	704	639	616	530
45°	692	624	515	442	417	535
55°	527	446	335	273	254	471
65°	356	272	179	144	141	352
75°	190	118	82	75	74	201
85°	44	23	20	20	20	51
90°	1	10	26	25	25	4
95°	27	66	300	113	87	28
105°	94	141	568	1015	864	99
115°	165	208	475	981	1137	163
125°	230	272	457	795	922	204
135°	270	322	452	668	764	208
145°	308	354	449	558	610	193
155°	350	378	436	493	513	161
165°	382	393	418	443	450	108
175°	398	398	402	407	406	38
180°	399	399	399	399	399	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.8	1138.8	1138.8	1138.8	1138.8
2.5°	1143.9	1138.8	1127.4	1137.7	1135.7
5°	1138.8	1133.6	1120.2	1129.5	1126.4
7.5°	1129.5	1123.3	1108.9	1113.0	1107.8
10°	1117.1	1109.9	1089.3	1086.2	1080.0
12.5°	1101.7	1092.4	1064.6	1058.4	1047.0
15°	1083.1	1071.8	1036.7	1017.2	1006.8
17.5°	1061.5	1045.0	1001.7	979.0	962.5
20°	1036.7	1016.1	964.6	938.8	916.2
22.5°	1009.9	986.2	926.5	891.4	876.0
25°	983.1	950.2	882.2	839.9	824.4
27.5°	951.2	916.2	840.9	792.5	768.8
30°	917.2	878.0	795.6	743.0	715.2
32.5°	884.2	836.8	752.3	690.5	664.7
35°	847.1	794.6	703.9	638.9	616.3
37.5°	811.0	754.4	658.5	587.4	561.6
40°	772.9	711.1	611.1	537.9	511.2
42.5°	733.8	667.8	563.7	487.4	461.7
45°	692.5	623.5	515.3	442.1	417.4
47.5°	653.4	580.2	468.9	395.7	373.1
50°	610.1	536.9	423.6	352.4	330.8
52.5°	567.8	490.5	380.3	312.3	292.7
55°	526.6	446.2	334.9	273.1	253.5
57.5°	484.4	401.9	294.7	237.0	220.5
60°	441.1	358.6	252.5	199.9	183.4
62.5°	398.8	316.4	216.4	166.9	158.7
65°	355.5	272.1	179.3	144.3	141.2
67.5°	314.3	230.8	144.3	126.8	123.7
70°	271.0	190.7	119.5	109.2	105.1
72.5°	229.8	153.6	100.0	91.7	89.7
75°	189.6	117.5	82.4	75.2	74.2
77.5°	149.4	83.5	64.9	60.8	58.7
80°	112.3	59.8	49.5	45.3	45.3
82.5°	78.3	40.2	34.0	31.9	31.9
85°	44.3	22.7	19.6	19.6	19.6
87.5°	16.5	8.2	8.2	7.2	7.2
90°	0.8	10.4	26.1	24.9	25.3
92.5°	11.5	36.4	118.1	54.4	46.8
95°	26.8	65.9	300.5	113.4	87.4
97.5°	39.9	87.1	489.9	227.7	146.4
100°	59.0	106.6	605.7	453.5	274.5
102.5°	76.7	124.2	609.5	766.7	535.2
105°	93.5	141.0	568.1	1015.4	864.1
107.5°	111.9	158.0	529.8	1105.6	1085.6
110°	130.3	175.2	503.7	1091.0	1176.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.2	191.7	486.9	1041.6	1174.6
115°	164.8	208.2	475.4	981.0	1137.0
117.5°	183.2	224.6	469.2	923.1	1080.3
120°	200.1	240.8	463.9	871.4	1025.8
122.5°	216.2	257.2	460.8	831.1	969.1
125°	230.0	272.2	457.0	794.6	922.3
127.5°	241.5	286.4	454.7	763.6	878.6
130°	251.5	299.0	453.1	732.2	842.6
132.5°	260.7	311.2	452.4	699.6	805.0
135°	269.9	322.0	451.6	667.8	764.4
137.5°	278.3	331.2	451.6	635.6	725.3
140°	288.3	339.6	450.8	607.2	684.7
142.5°	298.2	346.5	450.8	580.0	644.0
145°	308.2	354.2	449.3	557.8	610.3
147.5°	318.9	360.4	447.0	538.2	580.4
150°	329.7	366.5	444.7	521.4	554.3
152.5°	340.4	372.6	440.9	507.2	532.1
155°	350.4	378.4	436.3	493.4	512.9
157.5°	358.8	383.0	431.7	480.4	496.1
160°	367.2	387.6	427.1	467.3	480.0
162.5°	375.7	391.0	423.2	455.0	464.6
165°	381.8	393.3	417.9	443.2	450.1
167.5°	387.2	395.6	413.3	432.4	436.3
170°	392.5	396.8	409.4	422.4	424.0
172.5°	395.6	397.9	404.8	413.6	414.0
175°	397.9	398.3	401.7	406.7	405.6
177.5°	399.4	398.7	398.7	401.7	399.4
180°	398.7	398.7	398.7	398.7	398.7

(END OF REPORT)