

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: P1009146

Luminaire Tested: S122DIP-B485D725UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009146
REPORT IS A COMBINATION OF REPORTS P984339 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D725UB35-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

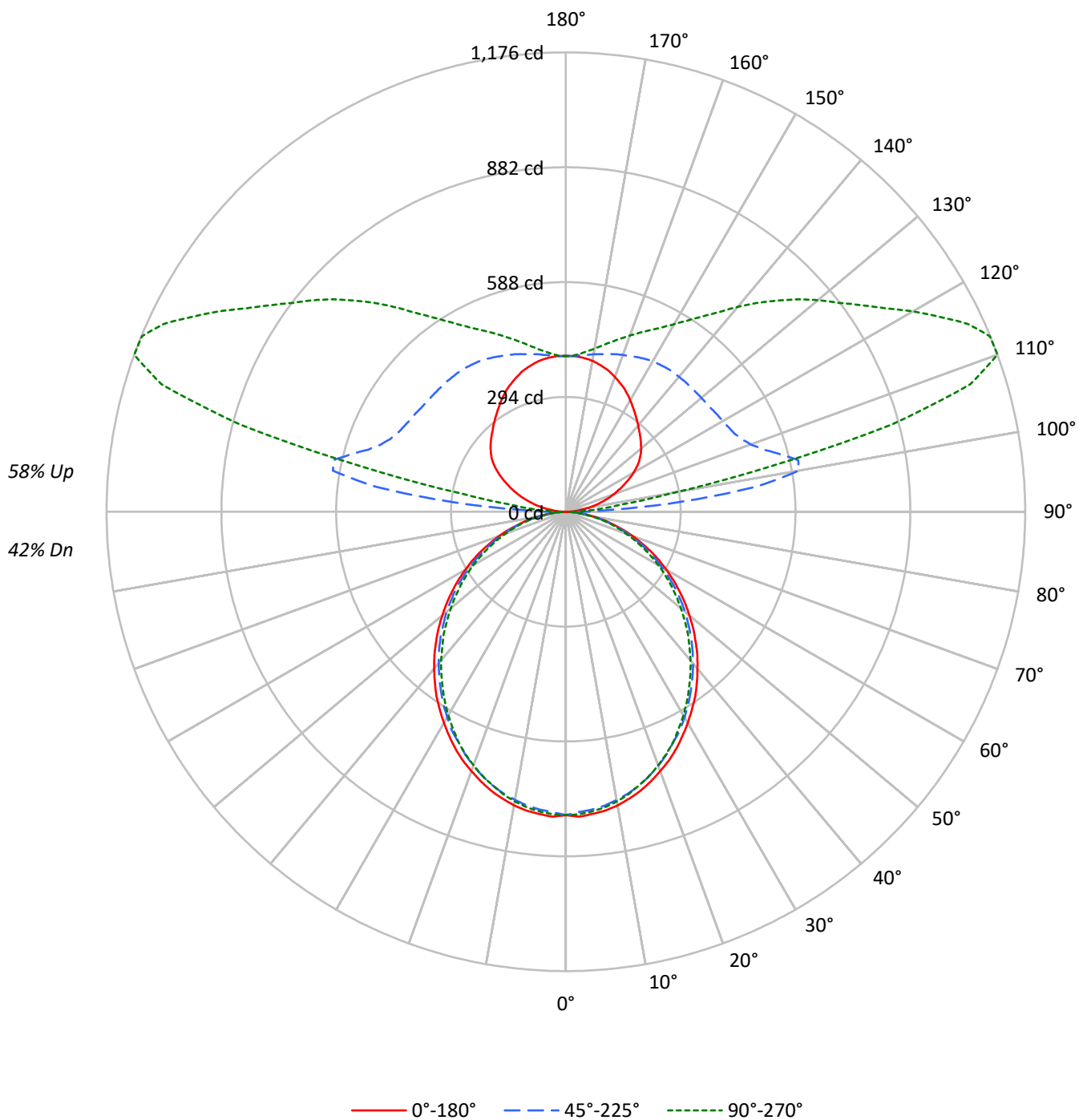
Lumens per Lamp: N/A
Luminaire Lumens: 4758.2 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	96	92	88	84	87	84	80	77	69	67	64	55	54	52	43	42	41
2	87	80	74	69	79	73	68	64	60	57	53	49	46	44	38	36	34
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	33	31	29
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12295	12295	12295
5°	12315	11719	11636
10°	12213	11184	10963
15°	12035	10647	10255
20°	11794	10061	9585
25°	11552	9451	8916
30°	11249	8876	8212
35°	10964	8270	7524
40°	10611	7671	6870
45°	10258	7078	6231
50°	9876	6475	5568
55°	9473	5829	4939
60°	9018	5131	4286
65°	8521	4421	3599
70°	7891	3643	2907
75°	7021	2808	2243
80°	5964	1908	1444
85°	4322	887	614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10258 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	1.5
10°-20°	205.7	4.3
20°-30°	302.3	6.4
30°-40°	351.0	7.4
40°-50°	350.6	7.4
50°-60°	305.7	6.4
60°-70°	226.0	4.7
70°-80°	127.9	2.7
80°-90°	36.3	0.8
90°-100°	161.6	3.4
100°-110°	546.4	11.5
110°-120°	574.3	12.1
120°-130°	472.3	9.9
130°-140°	379.5	8.0
140°-150°	286.7	6.0
150°-160°	201.6	4.2
160°-170°	118.7	2.5
170°-180°	38.6	0.8
0°-30°	581.0	12.2
0°-40°	932.1	19.6
0°-60°	1588.4	33.4
0°-90°	1978.6	41.6
90°-120°	1282.3	26.9
90°-150°	2420.8	50.9
90°-180°	2780.0	58.4
0°-180°	4758.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	777	774	766	772	770	74
15°	739	735	725	728	724	208
25°	669	663	650	652	650	308
35°	577	570	558	553	550	360
45°	470	464	453	445	442	363
55°	356	351	342	333	329	318
65°	240	235	228	221	217	237
75°	126	124	120	116	117	134
85°	31	30	29	27	26	34
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°	776.7	776.7	776.7	776.7	776.7
2.5°	781.2	777.4	769.2	776.7	775.2
5°	776.7	773.7	765.5	771.5	770.0
7.5°	771.5	767.0	758.8	764.7	763.2
10°	763.2	758.0	749.0	755.0	752.8
12.5°	752.0	747.6	738.6	742.3	740.8
15°	739.3	734.9	725.2	728.1	724.4
17.5°	723.7	719.2	709.5	713.2	709.5
20°	706.5	702.0	691.5	693.8	690.8
22.5°	689.3	682.6	672.9	672.9	671.4
25°	669.1	663.2	650.5	652.0	650.5
27.5°	646.7	641.5	631.8	629.6	625.8
30°	624.3	618.4	607.2	604.9	601.9
32.5°	600.4	596.0	584.0	579.5	576.5
35°	577.3	569.8	557.9	553.4	549.7
37.5°	551.1	544.4	532.5	527.2	523.5
40°	524.3	518.3	506.3	499.6	496.6
42.5°	498.1	492.1	480.2	472.7	468.2
45°	469.7	464.5	453.3	445.1	442.1
47.5°	442.1	436.9	424.9	416.7	412.2
50°	413.0	409.3	398.8	388.3	384.6
52.5°	384.6	379.4	369.7	361.5	356.2
55°	355.5	351.0	342.0	333.1	329.3
57.5°	326.4	322.6	312.9	304.0	301.0
60°	297.2	294.2	283.8	275.6	273.3
62.5°	268.9	263.6	256.2	248.7	245.7
65°	239.7	235.2	227.8	221.1	217.3
67.5°	209.9	206.1	199.4	194.2	191.2
70°	182.2	179.2	172.5	167.3	164.3
72.5°	153.8	150.9	147.1	141.9	139.7
75°	125.5	124.0	120.2	115.8	117.2
77.5°	100.1	97.1	95.6	93.4	91.1
80°	74.7	73.9	72.4	70.2	68.7
82.5°	50.8	50.8	50.0	47.0	47.0
85°	30.6	29.9	29.1	26.9	26.1
87.5°	13.4	11.9	10.5	8.2	7.5
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)