

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: P1009035

Luminaire Tested: S122DIP-B485D330UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009035
REPORT IS A COMBINATION OF REPORTS P984183 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D330UB27-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

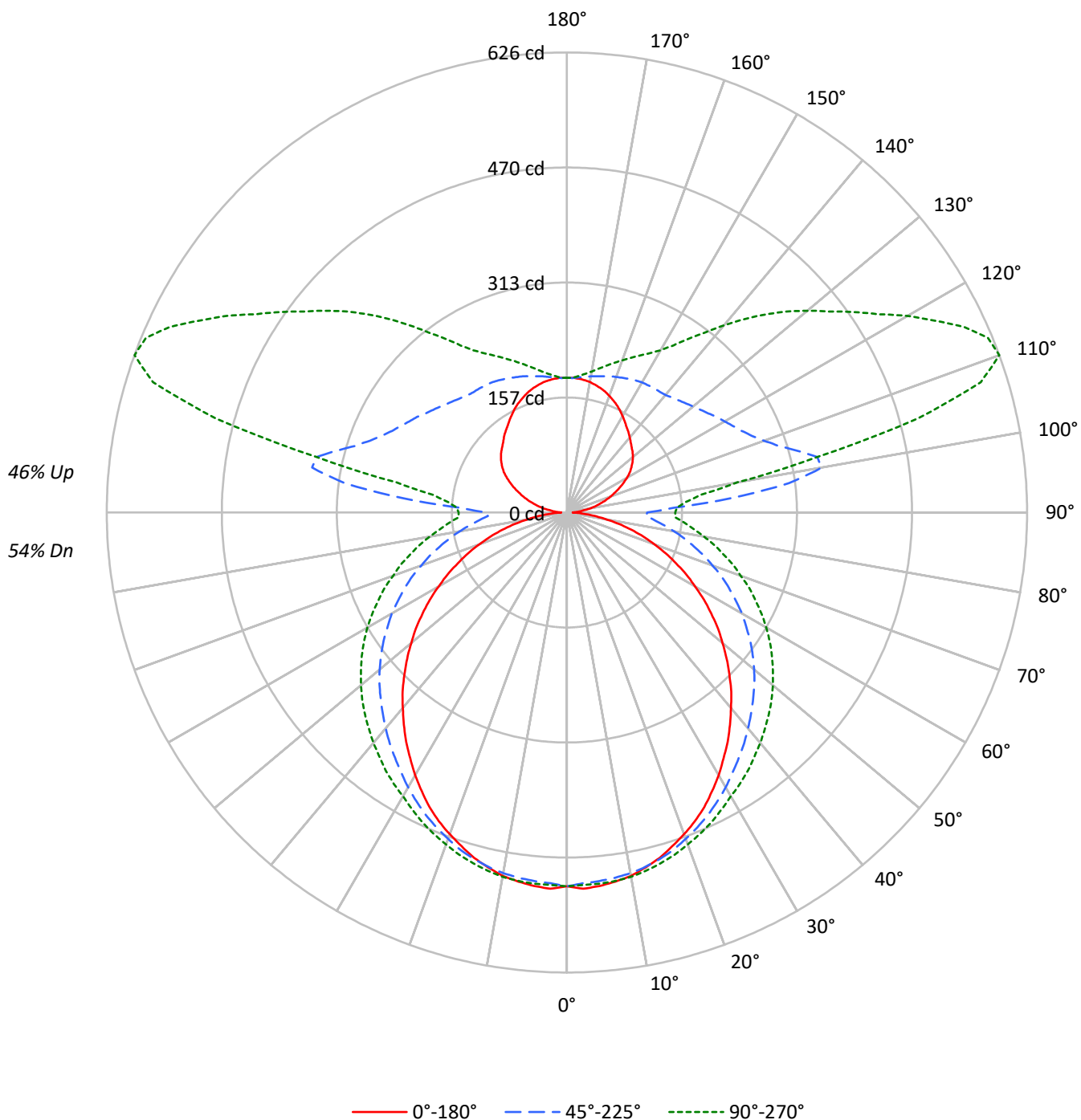
Lumens per Lamp: N/A
Luminaire Lumens: 3219.5 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 33.3
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59
1	97	92	87	83	90	85	81	78	72	69	67	61	59	57	50	48	47
2	88	79	73	67	81	74	68	62	63	58	54	52	49	46	43	41	38
3	80	69	61	55	73	64	57	51	55	49	45	46	42	38	38	35	32
4	73	61	52	46	67	57	49	43	48	42	38	41	36	32	33	30	27
5	66	54	45	39	61	50	43	37	43	37	32	36	31	28	30	26	23
6	61	48	40	34	56	45	37	32	39	32	28	33	28	24	27	23	20
7	56	44	35	29	52	41	33	28	35	29	24	30	25	21	25	21	18
8	52	39	31	26	48	37	30	24	32	26	22	27	22	19	23	19	16
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	14
10	45	33	26	21	42	31	24	19	27	21	17	23	18	15	19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8052	8052	8052
5°	8089	7708	7665
10°	8035	7442	7332
15°	7921	7166	6992
20°	7777	6876	6670
25°	7636	6597	6376
30°	7440	6315	6085
35°	7240	6043	5873
40°	7027	5809	5661
45°	6827	5595	5476
50°	6612	5398	5294
55°	6384	5190	5108
60°	6108	4972	4913
65°	5819	4722	4689
70°	5491	4454	4447
75°	5074	4184	4219
80°	4415	3905	3984
85°	3743	3641	3779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6827 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.5
10°-20°	138.3	4.3
20°-30°	209.6	6.5
30°-40°	255.2	7.9
40°-50°	274.6	8.5
50°-60°	266.6	8.3
60°-70°	232.9	7.2
70°-80°	179.2	5.6
80°-90°	121.2	3.8
90°-100°	157.1	4.9
100°-110°	311.5	9.7
110°-120°	303.8	9.4
120°-130°	239.3	7.4
130°-140°	183.7	5.7
140°-150°	133.3	4.1
150°-160°	92.6	2.9
160°-170°	54.5	1.7
170°-180°	17.7	0.6
0°-30°	396.1	12.3
0°-40°	651.3	20.2
0°-60°	1192.5	37.0
0°-90°	1725.8	53.6
90°-120°	772.5	24.0
90°-150°	1328.8	41.3
90°-180°	1494.0	46.4
0°-180°	3219.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	510	508	504	508	507	48
15°	487	488	488	495	494	137
25°	442	448	454	463	465	203
35°	381	394	408	424	429	238
45°	313	332	358	381	388	241
55°	240	266	304	331	341	214
65°	164	200	243	274	283	163
75°	91	132	179	211	220	96
85°	26	72	119	150	161	28
90°	8	55	109	138	147	6
95°	18	71	223	165	162	17
105°	47	90	324	556	494	50
115°	79	107	263	517	597	78
125°	107	127	235	410	475	96
135°	125	149	216	330	381	97
145°	142	163	206	261	288	89
155°	161	174	200	227	236	74
165°	176	181	192	204	207	49
175°	183	183	185	187	186	17
180°	183	183	183	183	183	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	508.7	508.7	508.7	508.7	508.7
2.5°	512.4	510.2	505.0	508.7	507.2
5°	510.2	508.0	503.5	508.0	507.2
7.5°	506.5	505.0	501.3	506.5	505.7
10°	502.1	500.6	498.4	504.3	503.5
12.5°	494.7	495.4	493.9	499.8	499.1
15°	486.6	488.1	488.1	494.7	493.9
17.5°	476.3	479.2	481.4	488.1	488.1
20°	465.9	469.6	472.6	480.7	480.7
22.5°	454.9	459.3	463.7	471.8	473.3
25°	442.3	447.5	454.1	463.0	465.2
27.5°	427.6	435.7	443.1	454.1	455.6
30°	412.9	422.4	432.0	443.8	446.0
32.5°	396.6	407.7	419.5	433.5	437.9
35°	381.2	393.7	407.7	423.9	429.1
37.5°	364.2	378.2	395.9	413.6	418.8
40°	347.2	363.5	383.4	402.5	409.2
42.5°	331.0	347.2	370.8	392.2	398.8
45°	312.6	332.5	358.3	381.2	388.5
47.5°	294.9	316.3	345.8	369.4	377.5
50°	276.5	299.3	332.5	357.6	365.7
52.5°	258.8	283.1	318.5	344.3	353.1
55°	239.6	266.1	304.5	331.0	340.6
57.5°	221.2	250.7	289.0	317.7	327.3
60°	201.3	233.0	275.0	303.0	313.3
62.5°	183.6	216.7	258.8	289.0	298.6
65°	163.7	199.8	243.3	273.5	283.1
67.5°	146.0	183.6	227.8	258.0	268.4
70°	126.8	165.1	210.9	242.6	251.4
72.5°	109.1	148.9	195.4	226.3	237.4
75°	90.7	132.0	179.1	210.9	220.4
77.5°	73.0	115.7	163.7	195.4	205.7
80°	55.3	100.3	148.2	179.1	189.5
82.5°	40.5	84.8	133.4	164.4	174.0
85°	26.5	72.2	119.4	150.4	160.7
87.5°	16.2	60.5	107.6	137.9	147.4
90°	7.8	54.8	109.3	138.2	147.3
92.5°	11.9	62.4	145.0	144.4	149.8
95°	18.2	70.8	222.9	165.0	161.8
97.5°	23.5	76.8	304.7	211.6	183.0
100°	32.3	81.4	352.0	309.4	235.2
102.5°	39.6	85.8	348.7	447.4	349.1
105°	46.7	89.9	324.5	555.8	494.4
107.5°	55.1	93.9	301.6	591.4	590.3
110°	62.8	98.2	285.3	578.8	625.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	70.5	102.8	272.4	550.8	620.1
115°	78.6	106.8	262.6	517.2	597.0
117.5°	86.4	111.4	254.7	485.4	565.0
120°	94.2	115.8	247.8	455.7	534.8
122.5°	101.6	121.1	241.9	432.0	502.1
125°	107.2	126.6	235.1	410.2	475.4
127.5°	112.5	132.3	229.5	390.0	449.4
130°	117.1	138.1	224.4	370.4	427.0
132.5°	121.3	143.8	219.7	350.2	404.6
135°	124.7	148.6	215.6	330.5	380.8
137.5°	128.6	152.9	211.9	310.5	356.9
140°	133.2	156.1	208.7	292.4	332.3
142.5°	137.7	159.2	207.2	275.3	308.4
145°	141.6	162.8	206.5	260.7	288.5
147.5°	146.6	165.6	205.4	248.0	269.6
150°	151.5	168.4	204.3	239.6	254.7
152.5°	156.4	171.2	202.6	233.0	244.5
155°	161.0	173.8	200.5	226.8	235.7
157.5°	164.9	176.0	198.4	220.7	227.9
160°	168.8	178.1	196.2	214.8	220.5
162.5°	172.6	179.7	194.5	209.1	213.5
165°	175.5	180.8	192.0	203.6	206.8
167.5°	177.9	181.8	189.9	198.7	200.5
170°	180.4	182.3	188.1	194.2	194.8
172.5°	181.8	182.8	186.0	190.0	190.2
175°	182.8	183.0	184.6	186.9	186.4
177.5°	183.6	183.2	183.2	184.6	183.6
180°	183.2	183.2	183.2	183.2	183.2

(END OF REPORT)