

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: P1009967

Luminaire Tested: S122RDIP-B485D1080UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009967
REPORT IS A COMBINATION OF REPORTS P988245 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B485D1080UB35-4F0-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

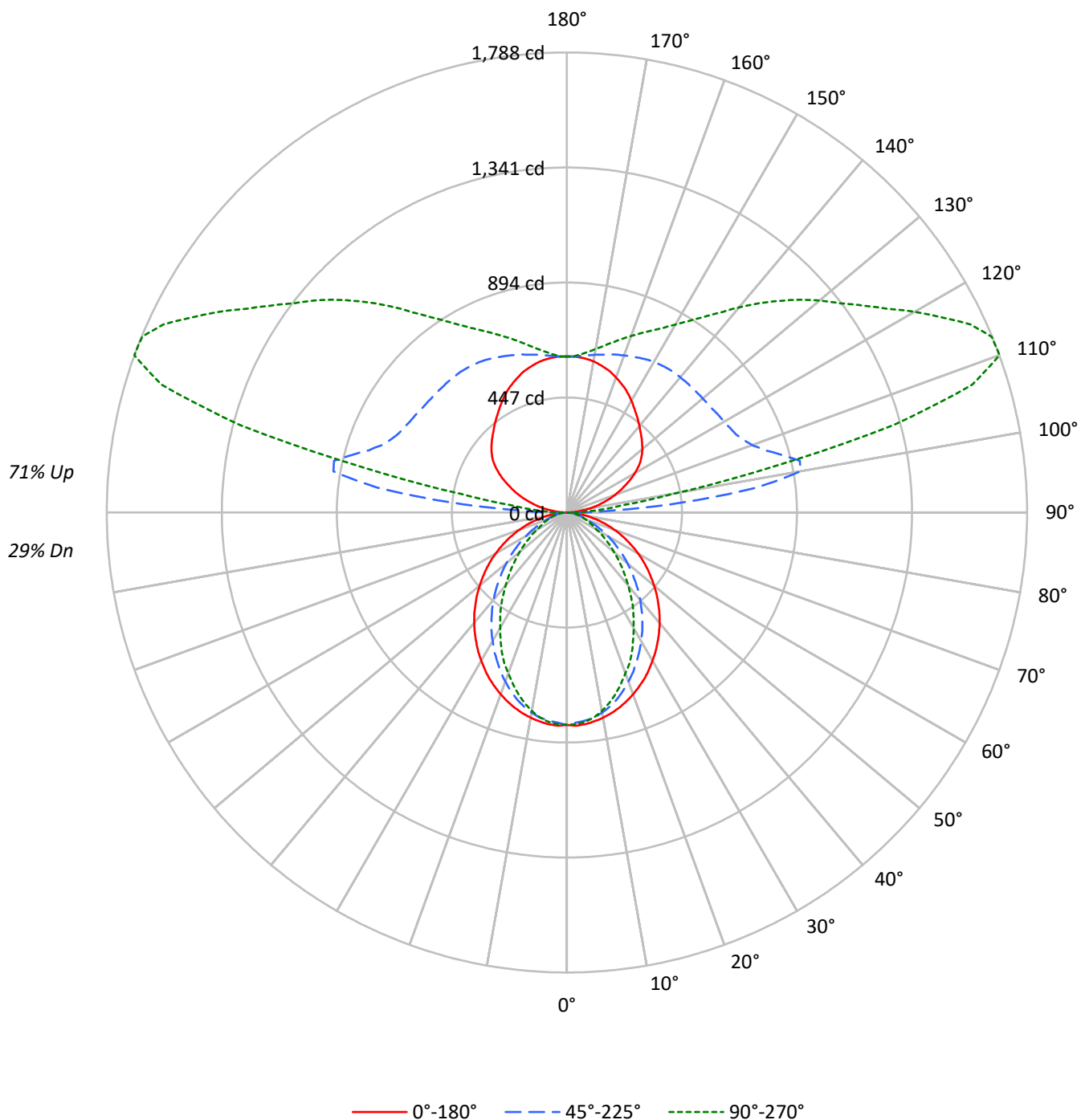
Lumens per Lamp: N/A
Luminaire Lumens: 5928.9 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	102	102	102	102	91	91	91	91	72	72	72	53	53	53	37	37	37
1	93	89	86	82	83	80	77	74	63	61	59	47	46	45	33	32	31
2	85	78	72	68	76	70	65	61	55	52	49	42	40	38	29	28	27
3	78	69	62	56	69	62	56	51	49	45	42	37	34	32	26	24	23
4	71	61	54	48	64	55	49	44	44	39	36	33	30	28	23	22	20
5	65	54	47	41	58	49	43	38	39	34	31	30	27	24	21	19	18
6	60	49	41	36	54	44	37	33	35	30	27	27	24	21	19	17	16
7	56	44	36	31	50	40	33	29	32	27	24	25	21	19	18	16	14
8	52	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	13
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	11
10	45	33	26	22	40	30	24	20	24	20	17	19	16	14	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13069	13069	13069
5°	13090	12434	12342
10°	12961	11793	11403
15°	12784	11036	10334
20°	12548	10176	9216
25°	12306	9292	8192
30°	11982	8432	7075
35°	11665	7564	6115
40°	11342	6713	5127
45°	10966	5834	4265
50°	10577	4986	3472
55°	10174	4138	2757
60°	9704	3310	2086
65°	9165	2523	1696
70°	8510	1831	1348
75°	7692	1397	1030
80°	6499	946	692
85°	4534	433	334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.3
10°-20°	212.4	3.6
20°-30°	298.2	5.0
30°-40°	325.1	5.5
40°-50°	298.8	5.0
50°-60°	234.7	4.0
60°-70°	152.7	2.6
70°-80°	78.6	1.3
80°-90°	24.0	0.4
90°-100°	245.8	4.1
100°-110°	830.9	14.0
110°-120°	873.4	14.7
120°-130°	718.2	12.1
130°-140°	577.1	9.7
140°-150°	436.0	7.4
150°-160°	306.5	5.2
160°-170°	180.5	3.0
170°-180°	58.7	1.0
0°-30°	588.0	9.9
0°-40°	913.1	15.4
0°-60°	1446.5	24.4
0°-90°	1701.9	28.7
90°-120°	1950.0	32.9
90°-150°	3681.3	62.1
90°-180°	4227.0	71.3
0°-180°	5928.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	826	822	812	819	817	78
15°	785	777	752	738	730	221
25°	713	689	640	609	598	328
35°	614	576	510	463	447	384
45°	502	452	374	320	303	388
55°	382	324	243	198	184	341
65°	258	197	130	105	102	256
75°	138	85	60	54	54	145
85°	32	16	14	14	14	37
90°	1	16	40	38	38	4
95°	41	100	457	173	133	42
105°	142	215	864	1544	1314	151
115°	251	317	723	1492	1729	249
125°	350	414	695	1208	1403	311
135°	410	490	687	1016	1162	317
145°	469	539	683	848	928	294
155°	533	575	663	750	780	245
165°	581	598	635	674	684	164
175°	605	606	611	618	617	57
180°	606	606	606	606	606	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.6	825.6	825.6	825.6	825.6
2.5°	829.4	825.6	817.4	824.9	823.4
5°	825.6	821.9	812.2	818.9	816.7
7.5°	818.9	814.4	804.0	806.9	803.2
10°	809.9	804.7	789.8	787.5	783.0
12.5°	798.7	792.0	771.8	767.3	759.1
15°	785.3	777.1	751.7	737.5	730.0
17.5°	769.6	757.6	726.2	709.8	697.9
20°	751.7	736.7	699.4	680.7	664.2
22.5°	732.2	715.0	671.7	646.3	635.1
25°	712.8	688.9	639.6	608.9	597.7
27.5°	689.6	664.2	609.7	574.6	557.4
30°	665.0	636.6	576.8	538.7	518.5
32.5°	641.1	606.7	545.4	500.6	481.9
35°	614.2	576.1	510.3	463.2	446.8
37.5°	588.0	546.9	477.4	425.9	407.2
40°	560.4	515.5	443.1	390.0	370.6
42.5°	532.0	484.2	408.7	353.4	334.7
45°	502.1	452.0	373.6	320.5	302.6
47.5°	473.7	420.7	340.0	286.9	270.5
50°	442.3	389.3	307.1	255.5	239.8
52.5°	411.7	355.7	275.7	226.4	212.2
55°	381.8	323.5	242.8	198.0	183.8
57.5°	351.2	291.4	213.7	171.8	159.9
60°	319.8	260.0	183.1	145.0	133.0
62.5°	289.2	229.4	156.9	121.0	115.1
65°	257.8	197.3	130.0	104.6	102.4
67.5°	227.9	167.4	104.6	91.9	89.7
70°	196.5	138.2	86.7	79.2	76.2
72.5°	166.6	111.3	72.5	66.5	65.0
75°	137.5	85.2	59.8	54.5	53.8
77.5°	108.3	60.5	47.1	44.1	42.6
80°	81.4	43.3	35.9	32.9	32.9
82.5°	56.8	29.1	24.7	23.2	23.2
85°	32.1	16.4	14.2	14.2	14.2
87.5°	12.0	6.0	6.0	5.2	5.2
90°	1.2	15.8	39.6	37.9	38.5
92.5°	17.5	55.4	179.6	82.8	71.1
95°	40.8	100.3	457.0	172.6	132.9
97.5°	60.6	132.4	745.0	346.3	222.7
100°	89.8	162.0	921.1	689.7	417.4
102.5°	116.6	188.9	926.9	1165.9	813.8
105°	142.2	214.6	863.9	1544.2	1314.0
107.5°	170.2	240.2	805.6	1681.2	1650.9
110°	198.2	266.4	766.0	1659.1	1788.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.9	291.5	740.4	1583.8	1786.2
115°	250.7	316.6	722.9	1491.8	1729.0
117.5°	278.7	341.6	713.5	1403.8	1642.8
120°	304.3	366.1	705.4	1325.0	1560.0
122.5°	328.8	391.2	700.7	1263.8	1473.7
125°	349.8	413.9	694.9	1208.4	1402.6
127.5°	367.3	435.5	691.4	1161.2	1336.1
130°	382.4	454.7	689.1	1113.4	1281.3
132.5°	396.4	473.4	687.9	1063.9	1224.2
135°	410.4	489.7	686.7	1015.6	1162.4
137.5°	423.2	503.6	686.7	966.6	1103.0
140°	438.4	516.5	685.6	923.4	1041.2
142.5°	453.5	527.0	685.6	882.0	979.4
145°	468.7	538.6	683.2	848.2	928.1
147.5°	485.0	548.0	679.7	818.4	882.6
150°	501.3	557.3	676.2	792.8	843.0
152.5°	517.7	566.6	670.4	771.2	809.1
155°	532.8	575.4	663.4	750.3	780.0
157.5°	545.6	582.4	656.4	730.4	754.3
160°	558.5	589.4	649.4	710.6	729.9
162.5°	571.3	594.6	643.6	692.0	706.5
165°	580.6	598.1	635.4	673.9	684.4
167.5°	588.8	601.6	628.4	657.6	663.4
170°	596.9	603.4	622.6	642.4	644.7
172.5°	601.6	605.1	615.6	629.0	629.6
175°	605.1	605.7	610.9	618.5	616.8
177.5°	607.4	606.3	606.3	610.9	607.4
180°	606.3	606.3	606.3	606.3	606.3

(END OF REPORT)