

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: P1009455

Luminaire Tested: S122DIP-B865D1080UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009455
REPORT IS A COMBINATION OF REPORTS P984756 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D1080UB35-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

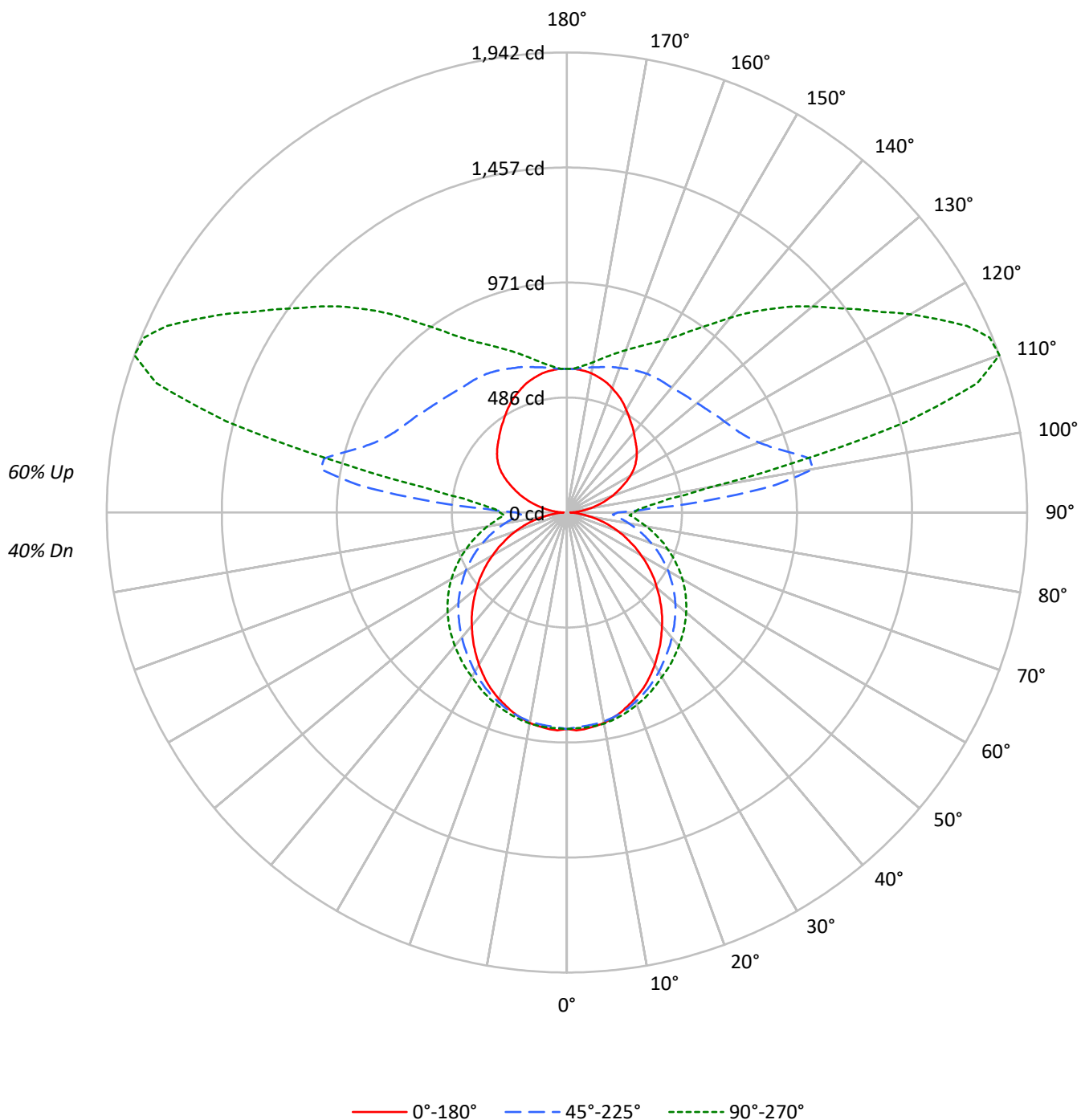
Lumens per Lamp: N/A
Luminaire Lumens: 7718.8 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	47	47	40
1	94	90	85	81	86	82	78	75	66	64	61	53	51	49	40	38	37	37	37	31
2	85	78	71	65	77	71	65	60	57	53	50	45	42	40	34	32	31	31	31	25
3	78	68	60	54	70	62	55	50	50	45	41	40	36	33	30	28	25	25	25	21
4	71	60	51	45	64	54	47	42	44	39	35	35	31	28	27	24	22	22	22	18
5	65	53	45	38	59	48	41	35	39	34	30	31	27	24	24	21	19	19	19	15
6	60	47	39	33	54	43	36	31	35	30	26	28	24	21	21	18	16	16	16	13
7	55	42	34	29	50	39	32	27	32	26	22	26	21	18	20	17	14	14	14	11
8	51	38	31	25	46	35	28	23	29	24	20	23	19	16	18	15	13	13	13	10
9	47	35	27	22	43	32	25	21	27	21	18	21	17	14	16	14	11	11	11	9
10	44	32	25	20	40	29	23	18	24	19	16	20	16	13	15	12	10	10	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14470	14470	14470
5°	14536	13853	13775
10°	14438	13373	13178
15°	14234	12876	12565
20°	13977	12355	11985
25°	13723	11856	11458
30°	13368	11348	10936
35°	13007	10860	10552
40°	12629	10437	10173
45°	12268	10054	9841
50°	11880	9701	9513
55°	11474	9326	9180
60°	10976	8935	8830
65°	10455	8485	8425
70°	9870	8002	7993
75°	9118	7519	7581
80°	7936	7018	7158
85°	6738	6544	6791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12268 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.1
10°-20°	248.5	3.2
20°-30°	376.6	4.9
30°-40°	458.6	5.9
40°-50°	493.4	6.4
50°-60°	479.2	6.2
60°-70°	418.5	5.4
70°-80°	322.1	4.2
80°-90°	219.6	2.8
90°-100°	394.6	5.1
100°-110°	939.6	12.2
110°-120°	945.1	12.2
120°-130°	758.1	9.8
130°-140°	593.9	7.7
140°-150°	438.8	5.7
150°-160°	306.5	4.0
160°-170°	180.5	2.3
170°-180°	58.7	0.8
0°-30°	711.8	9.2
0°-40°	1170.4	15.2
0°-60°	2142.9	27.8
0°-90°	3103.0	40.2
90°-120°	2279.3	29.5
90°-150°	4070.2	52.7
90°-180°	4616.0	59.8
0°-180°	7718.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	917	913	905	913	912	87
15°	874	877	877	889	888	246
25°	795	804	816	832	836	366
35°	685	708	733	762	771	428
45°	562	598	644	685	698	434
55°	431	478	547	595	612	385
65°	294	359	437	492	509	292
75°	163	237	322	379	396	172
85°	48	130	215	270	289	50
90°	14	106	214	266	282	12
95°	51	173	609	375	352	50
105°	149	260	978	1705	1489	159
115°	256	336	802	1611	1863	253
125°	352	416	740	1289	1495	314
135°	412	491	701	1058	1215	318
145°	469	539	683	856	943	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°	914.1	914.1	914.1	914.1	914.1
2.5°	920.8	916.8	907.5	914.1	911.5
5°	916.8	912.8	904.9	912.8	911.5
7.5°	910.2	907.5	900.9	910.2	908.8
10°	902.2	899.6	895.6	906.2	904.9
12.5°	889.0	890.3	887.6	898.2	896.9
15°	874.4	877.0	877.0	889.0	887.6
17.5°	855.8	861.1	865.1	877.0	877.0
20°	837.3	843.9	849.2	863.8	863.8
22.5°	817.4	825.4	833.3	847.9	850.5
25°	794.9	804.2	816.1	832.0	836.0
27.5°	768.4	783.0	796.2	816.1	818.7
30°	741.9	759.1	776.3	797.5	801.5
32.5°	712.8	732.6	753.8	779.0	786.9
35°	684.9	707.5	732.6	761.8	771.0
37.5°	654.5	679.6	711.4	743.2	752.5
40°	624.0	653.1	688.9	723.4	735.3
42.5°	594.8	624.0	666.4	704.8	716.7
45°	561.7	597.5	643.9	684.9	698.2
47.5°	529.9	568.4	621.3	663.7	678.3
50°	496.8	537.9	597.5	642.5	657.1
52.5°	465.0	508.7	572.3	618.7	634.6
55°	430.6	478.3	547.2	594.8	612.1
57.5°	397.4	450.4	519.3	571.0	588.2
60°	361.7	418.6	494.2	544.5	563.1
62.5°	329.9	389.5	465.0	519.3	536.6
65°	294.1	359.0	437.2	491.5	508.7
67.5°	262.3	329.9	409.4	463.7	482.2
70°	227.9	296.8	378.9	435.9	451.8
72.5°	196.1	267.6	351.1	406.7	426.6
75°	163.0	237.1	321.9	378.9	396.1
77.5°	131.2	208.0	294.1	351.1	369.6
80°	99.4	180.2	266.3	321.9	340.5
82.5°	72.9	152.4	239.8	295.4	312.7
85°	47.7	129.8	214.6	270.3	288.8
87.5°	29.1	108.6	193.4	247.7	265.0
90°	14.4	105.8	214.5	265.8	282.3
92.5°	29.4	137.5	342.6	297.4	301.6
95°	51.4	173.2	609.4	375.2	351.5
97.5°	69.9	198.6	888.1	538.4	430.7
100°	99.1	220.4	1053.6	871.2	613.5
102.5°	124.5	240.6	1050.1	1336.8	999.3
105°	148.8	259.6	977.8	1704.6	1488.9
107.5°	176.8	278.6	910.3	1831.0	1815.2
110°	203.5	298.2	862.7	1798.2	1942.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	229.2	318.0	827.8	1713.6	1930.6
115°	256.0	336.4	802.4	1611.0	1862.8
117.5°	282.7	356.2	783.7	1513.8	1766.0
120°	308.3	375.4	767.7	1424.4	1673.9
122.5°	332.8	396.5	755.0	1353.9	1575.7
125°	352.4	416.5	739.9	1289.2	1495.3
127.5°	369.9	436.8	728.5	1231.4	1418.2
130°	385.0	456.0	718.2	1174.4	1352.8
132.5°	399.0	474.6	709.1	1115.6	1286.5
135°	411.7	491.0	701.3	1058.0	1215.4
137.5°	424.5	505.0	694.6	999.6	1145.4
140°	439.7	516.5	688.2	947.2	1073.0
142.5°	454.8	527.0	685.6	897.9	1001.9
145°	468.7	538.6	683.2	856.1	942.7
147.5°	485.0	548.0	679.7	819.8	887.9
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)