

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: P1009594

Luminaire Tested: S122DIP-B865D725UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009594
REPORT IS A COMBINATION OF REPORTS P984943 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D725UB40-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

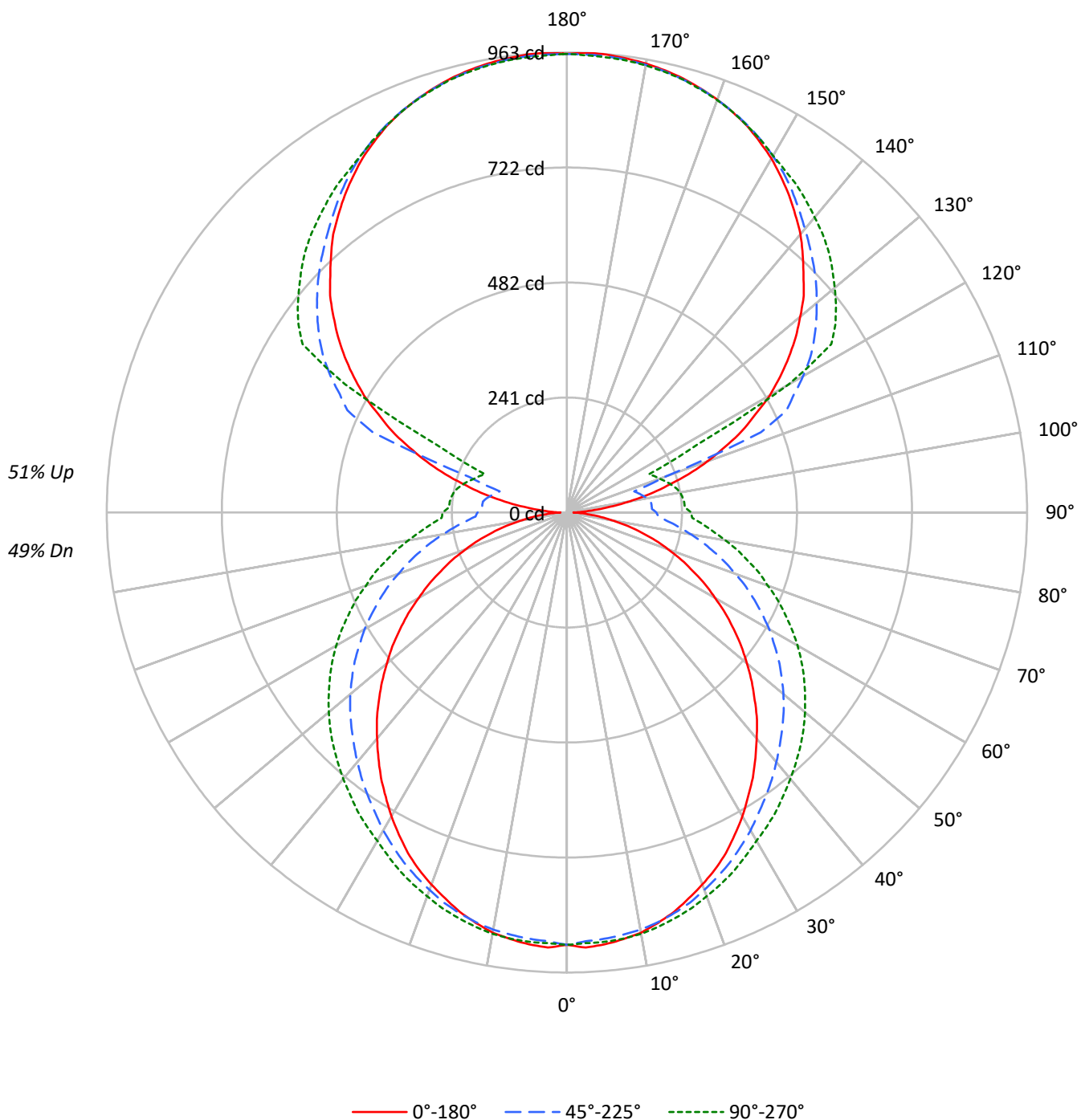
Lumens per Lamp: N/A
Luminaire Lumens: 6269.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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
RCR																	
0	107	107	107	107	98	98	98	98	83	83	83		68	68	68		55
1	96	91	87	83	88	84	80	77	70	68	65		58	56	54		46
2	87	79	72	66	80	73	67	62	61	56	53		50	47	44		40
3	79	69	61	55	72	63	56	51	53	48	44		44	40	36		35
4	72	60	52	46	66	56	48	43	47	41	37		39	34	31		31
5	66	54	45	39	60	50	42	36	42	36	31		35	30	26		28
6	61	48	40	33	55	44	37	31	37	32	27		31	26	23		25
7	56	43	35	29	51	40	33	27	34	28	24		28	24	20		23
8	52	39	31	26	47	36	29	24	31	25	21		26	21	18		21
9	48	36	28	23	44	33	26	21	28	23	19		24	19	16		19
10	45	33	25	20	41	30	24	19	26	20	17		22	17	14		18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14326	14326	14326
5°	14390	13714	13636
10°	14294	13239	13046
15°	14091	12747	12439
20°	13837	12231	11864
25°	13585	11737	11343
30°	13234	11236	10827
35°	12878	10751	10447
40°	12502	10333	10070
45°	12145	9953	9742
50°	11761	9603	9417
55°	11357	9232	9087
60°	10863	8845	8741
65°	10352	8400	8341
70°	9770	7922	7911
75°	9023	7444	7505
80°	7856	6946	7087
85°	6667	6480	6723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12145 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.4
10°-20°	246.0	3.9
20°-30°	372.8	5.9
30°-40°	454.0	7.2
40°-50°	488.4	7.8
50°-60°	474.4	7.6
60°-70°	414.3	6.6
70°-80°	318.8	5.1
80°-90°	215.2	3.4
90°-100°	179.0	2.9
100°-110°	225.6	3.6
110°-120°	384.0	6.1
120°-130°	558.6	8.9
130°-140°	568.0	9.1
140°-150°	515.2	8.2
150°-160°	412.0	6.6
160°-170°	265.5	4.2
170°-180°	91.4	1.5
0°-30°	704.6	11.2
0°-40°	1158.6	18.5
0°-60°	2121.4	33.8
0°-90°	3069.7	49.0
90°-120°	788.6	12.6
90°-150°	2430.4	38.8
90°-180°	3199.0	51.0
0°-180°	6269.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	908	904	896	904	902	86
15°	866	868	868	880	879	244
25°	787	796	808	824	828	362
35°	678	700	725	754	763	424
45°	556	592	637	678	691	429
55°	426	474	542	589	606	381
65°	291	355	433	487	504	289
75°	161	235	319	375	392	171
85°	47	128	212	268	286	50
90°	14	98	187	243	260	12
95°	56	94	178	231	246	62
105°	218	277	155	209	226	233
115°	405	431	507	225	190	398
125°	567	576	632	672	686	506
135°	700	711	731	765	774	541
145°	811	810	822	834	838	507
155°	893	886	895	899	893	411
165°	940	936	938	943	938	266
175°	962	957	959	963	956	92
180°	960	960	960	960	960	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.0	905.0	905.0	905.0	905.0
2.5°	911.5	907.6	898.4	905.0	902.3
5°	907.6	903.6	895.8	903.6	902.3
7.5°	901.0	898.4	891.8	901.0	899.7
10°	893.2	890.5	886.6	897.1	895.8
12.5°	880.0	881.3	878.7	889.2	887.9
15°	865.6	868.2	868.2	880.0	878.7
17.5°	847.2	852.5	856.4	868.2	868.2
20°	828.9	835.4	840.7	855.1	855.1
22.5°	809.2	817.1	825.0	839.4	842.0
25°	786.9	796.1	807.9	823.6	827.6
27.5°	760.7	775.1	788.2	807.9	810.5
30°	734.5	751.5	768.6	789.5	793.5
32.5°	705.6	725.3	746.3	771.2	779.1
35°	678.1	700.4	725.3	754.1	763.3
37.5°	647.9	672.8	704.3	735.8	745.0
40°	617.7	646.6	682.0	716.1	727.9
42.5°	588.9	617.7	659.7	697.7	709.5
45°	556.1	591.5	637.4	678.1	691.2
47.5°	524.6	562.6	615.1	657.1	671.5
50°	491.8	532.5	591.5	636.1	650.5
52.5°	460.3	503.6	566.6	612.5	628.2
55°	426.2	473.5	541.7	588.9	605.9
57.5°	393.5	445.9	514.1	565.3	582.3
60°	358.0	414.4	489.2	539.0	557.4
62.5°	326.6	385.6	460.3	514.1	531.2
65°	291.2	355.4	432.8	486.6	503.6
67.5°	259.7	326.6	405.3	459.0	477.4
70°	225.6	293.8	375.1	431.5	447.2
72.5°	194.1	264.9	347.6	402.6	422.3
75°	161.3	234.8	318.7	375.1	392.1
77.5°	129.8	205.9	291.2	347.6	365.9
80°	98.4	178.4	263.6	318.7	337.1
82.5°	72.1	150.8	237.4	292.5	309.5
85°	47.2	128.5	212.5	267.6	285.9
87.5°	28.9	107.5	191.5	245.3	262.3
90°	13.8	97.5	187.0	243.0	260.1
92.5°	29.2	95.9	178.0	230.6	247.0
95°	55.7	94.3	177.9	231.3	246.3
97.5°	90.5	89.9	177.0	227.7	244.1
100°	132.1	85.5	170.8	224.9	240.6
102.5°	176.7	218.5	163.0	217.8	234.3
105°	217.8	276.6	155.2	208.7	225.9
107.5°	267.1	315.9	147.4	199.6	216.8
110°	312.9	353.8	217.3	189.8	207.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.4	390.9	439.5	182.0	198.6
115°	404.6	430.9	507.3	225.0	189.5
117.5°	444.3	468.7	535.6	475.7	306.8
120°	490.1	505.9	570.8	615.9	536.5
122.5°	529.0	541.5	603.9	643.5	656.0
125°	567.3	576.4	631.6	671.8	685.7
127.5°	603.5	611.9	657.7	697.4	709.9
130°	637.5	647.3	682.5	721.6	731.4
132.5°	672.2	680.0	707.3	743.6	753.4
135°	700.1	711.2	730.6	765.1	774.2
137.5°	730.7	739.0	752.5	784.4	791.5
140°	760.5	764.8	775.0	802.3	806.7
142.5°	785.5	789.1	798.1	819.4	822.5
145°	810.6	809.9	821.7	834.5	837.5
147.5°	833.6	831.5	843.3	848.1	849.2
150°	855.8	850.9	862.0	866.2	862.7
152.5°	874.5	869.0	879.4	883.6	878.7
155°	892.6	886.3	894.7	898.8	893.3
157.5°	907.2	901.6	907.9	912.7	907.2
160°	919.7	915.5	919.7	923.9	919.0
162.5°	930.8	926.6	930.1	935.0	928.7
165°	940.5	936.4	938.4	943.3	938.4
167.5°	948.2	944.0	946.1	950.9	944.7
170°	954.4	950.3	951.6	956.5	950.3
172.5°	958.6	954.4	955.8	960.7	954.4
175°	962.1	957.2	958.6	963.4	956.5
177.5°	963.4	958.6	959.3	964.1	957.9
180°	960.0	960.0	960.0	960.0	960.0

(END OF REPORT)