

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: P1009623

Luminaire Tested: S122DIP-B865D925UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009623
REPORT IS A COMBINATION OF REPORTS P984987 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D925UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

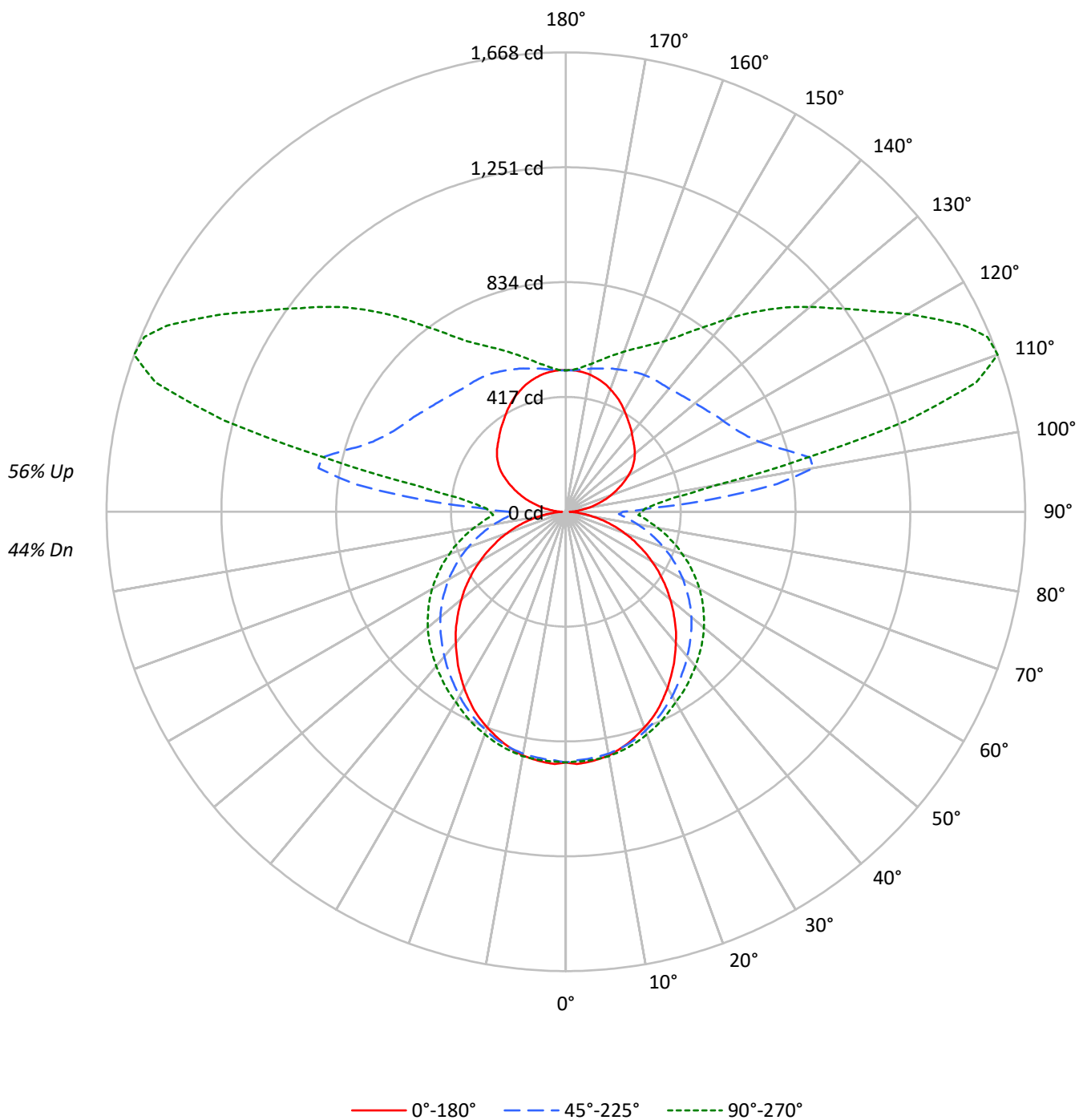
Lumens per Lamp: N/A
Luminaire Lumens: 7058.1 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	50	50	50	44		
1	95	90	86	82	87	82	79	75	68	65	63	55	53	51	42	41	40	34		
2	86	78	71	66	78	71	66	61	59	55	51	47	44	42	37	34	33	28		
3	78	68	60	54	71	62	56	50	51	46	42	41	38	35	32	29	27	23		
4	71	60	52	45	65	55	48	42	45	40	36	37	32	29	28	25	23	19		
5	65	53	45	39	59	49	41	36	40	35	30	33	28	25	25	22	20	16		
6	60	48	39	33	54	44	36	31	36	31	26	29	25	22	23	20	17	14		
7	55	43	35	29	50	39	32	27	33	27	23	27	22	19	21	18	15	12		
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	14	11		
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	18	14	12	10		
10	44	32	25	20	41	30	23	19	25	20	16	21	16	14	16	13	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14408	14408	14408
5°	14473	13793	13716
10°	14375	13315	13121
15°	14172	12822	12511
20°	13917	12303	11934
25°	13665	11806	11409
30°	13310	11300	10889
35°	12952	10814	10507
40°	12575	10392	10129
45°	12215	10011	9799
50°	11830	9659	9472
55°	11423	9285	9140
60°	10927	8895	8791
65°	10409	8448	8389
70°	9826	7969	7957
75°	9079	7486	7549
80°	7896	6986	7127
85°	6710	6516	6763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	1.2
10°-20°	247.5	3.5
20°-30°	375.0	5.3
30°-40°	456.6	6.5
40°-50°	491.3	7.0
50°-60°	477.1	6.8
60°-70°	416.7	5.9
70°-80°	320.7	4.5
80°-90°	218.1	3.1
90°-100°	356.5	5.1
100°-110°	812.3	11.5
110°-120°	811.5	11.5
120°-130°	648.4	9.2
130°-140°	505.7	7.2
140°-150°	372.2	5.3
150°-160°	259.7	3.7
160°-170°	152.9	2.2
170°-180°	49.7	0.7
0°-30°	708.7	10.0
0°-40°	1165.3	16.5
0°-60°	2133.7	30.2
0°-90°	3089.1	43.8
90°-120°	1980.3	28.1
90°-150°	3506.6	49.7
90°-180°	3969.0	56.2
0°-180°	7058.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	913	909	901	909	908	87
15°	871	873	873	885	884	245
25°	792	801	813	828	832	364
35°	682	704	730	758	768	426
45°	559	595	641	682	695	432
55°	429	476	545	592	609	383
65°	293	358	435	489	506	291
75°	162	236	320	377	394	172
85°	48	129	214	269	288	50
90°	14	103	208	259	275	12
95°	45	158	539	348	330	44
105°	127	227	846	1468	1288	136
115°	218	288	692	1383	1598	215
125°	299	353	634	1105	1281	266
135°	349	416	596	903	1038	270
145°	397	456	579	727	801	249
155°	452	488	562	636	661	208
165°	492	507	538	571	580	139
175°	513	513	518	524	523	49
180°	514	514	514	514	514	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.2	910.2	910.2	910.2	910.2
2.5°	916.8	912.8	903.6	910.2	907.6
5°	912.8	908.9	901.0	908.9	907.6
7.5°	906.2	903.6	897.0	906.2	904.9
10°	898.3	895.7	891.7	902.3	901.0
12.5°	885.1	886.5	883.8	894.4	893.1
15°	870.6	873.3	873.3	885.1	883.8
17.5°	852.2	857.4	861.4	873.3	873.3
20°	833.7	840.3	845.6	860.1	860.1
22.5°	813.9	821.8	829.7	844.2	846.9
25°	791.5	800.7	812.6	828.4	832.4
27.5°	765.1	779.6	792.8	812.6	815.2
30°	738.7	755.9	773.0	794.1	798.1
32.5°	709.7	729.5	750.6	775.6	783.6
35°	682.0	704.4	729.5	758.5	767.7
37.5°	651.6	676.7	708.4	740.0	749.3
40°	621.3	650.3	685.9	720.2	732.1
42.5°	592.3	621.3	663.5	701.8	713.6
45°	559.3	594.9	641.1	682.0	695.2
47.5°	527.7	565.9	618.7	660.9	675.4
50°	494.7	535.6	594.9	639.8	654.3
52.5°	463.0	506.5	569.9	616.0	631.9
55°	428.7	476.2	544.8	592.3	609.4
57.5°	395.7	448.5	517.1	568.5	585.7
60°	360.1	416.8	492.0	542.2	560.6
62.5°	328.5	387.8	463.0	517.1	534.2
65°	292.8	357.5	435.3	489.4	506.5
67.5°	261.2	328.5	407.6	461.7	480.2
70°	226.9	295.5	377.3	434.0	449.8
72.5°	195.2	266.5	349.6	405.0	424.8
75°	162.3	236.1	320.5	377.3	394.4
77.5°	130.6	207.1	292.8	349.6	368.0
80°	98.9	179.4	265.1	320.5	339.0
82.5°	72.6	151.7	238.8	294.2	311.3
85°	47.5	129.3	213.7	269.1	287.6
87.5°	29.0	108.2	192.6	246.7	263.8
90°	14.2	103.0	207.7	259.0	275.3
92.5°	26.7	128.8	314.4	283.8	289.8
95°	45.2	157.5	539.0	348.0	330.3
97.5°	60.6	178.2	773.8	484.8	395.8
100°	85.3	195.4	912.4	765.1	548.9
102.5°	106.7	211.4	908.1	1158.2	874.3
105°	127.1	226.7	845.5	1468.2	1287.5
107.5°	150.8	241.8	786.9	1573.8	1562.6
110°	173.3	257.4	745.4	1544.4	1668.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	195.0	273.4	714.5	1471.4	1657.4
115°	217.7	288.0	691.6	1382.8	1598.3
117.5°	240.1	304.0	674.5	1299.0	1514.7
120°	261.9	319.4	659.7	1221.8	1435.3
122.5°	282.6	336.8	647.9	1160.6	1350.4
125°	299.0	353.4	633.7	1104.6	1280.8
127.5°	313.8	370.3	622.8	1053.9	1214.0
130°	326.7	386.6	612.9	1004.2	1157.0
132.5°	338.5	402.4	604.0	952.9	1099.4
135°	349.1	416.3	596.4	902.8	1037.8
137.5°	359.9	428.1	589.8	852.0	976.8
140°	372.8	437.6	583.5	806.2	913.9
142.5°	385.6	446.6	580.9	763.2	852.3
145°	397.2	456.4	578.9	726.6	800.9
147.5°	411.0	464.4	576.0	694.8	753.2
150°	424.8	472.2	573.0	671.8	714.3
152.5°	438.7	480.2	568.1	653.5	685.6
155°	451.5	487.6	562.2	635.8	660.9
157.5°	462.4	493.5	556.2	619.0	639.2
160°	473.2	499.4	550.3	602.2	618.5
162.5°	484.1	503.8	545.4	586.3	598.7
165°	492.0	506.8	538.4	571.0	579.9
167.5°	498.9	509.8	532.5	557.2	562.2
170°	505.8	511.3	527.6	544.4	546.3
172.5°	509.8	512.8	521.6	533.0	533.5
175°	512.8	513.2	517.7	524.1	522.6
177.5°	514.7	513.7	513.7	517.7	514.7
180°	513.7	513.7	513.7	513.7	513.7

(END OF REPORT)