

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: P1009391

Luminaire Tested: S122DIP-B675D925UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009391
REPORT IS A COMBINATION OF REPORTS P984662 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D925UB27-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

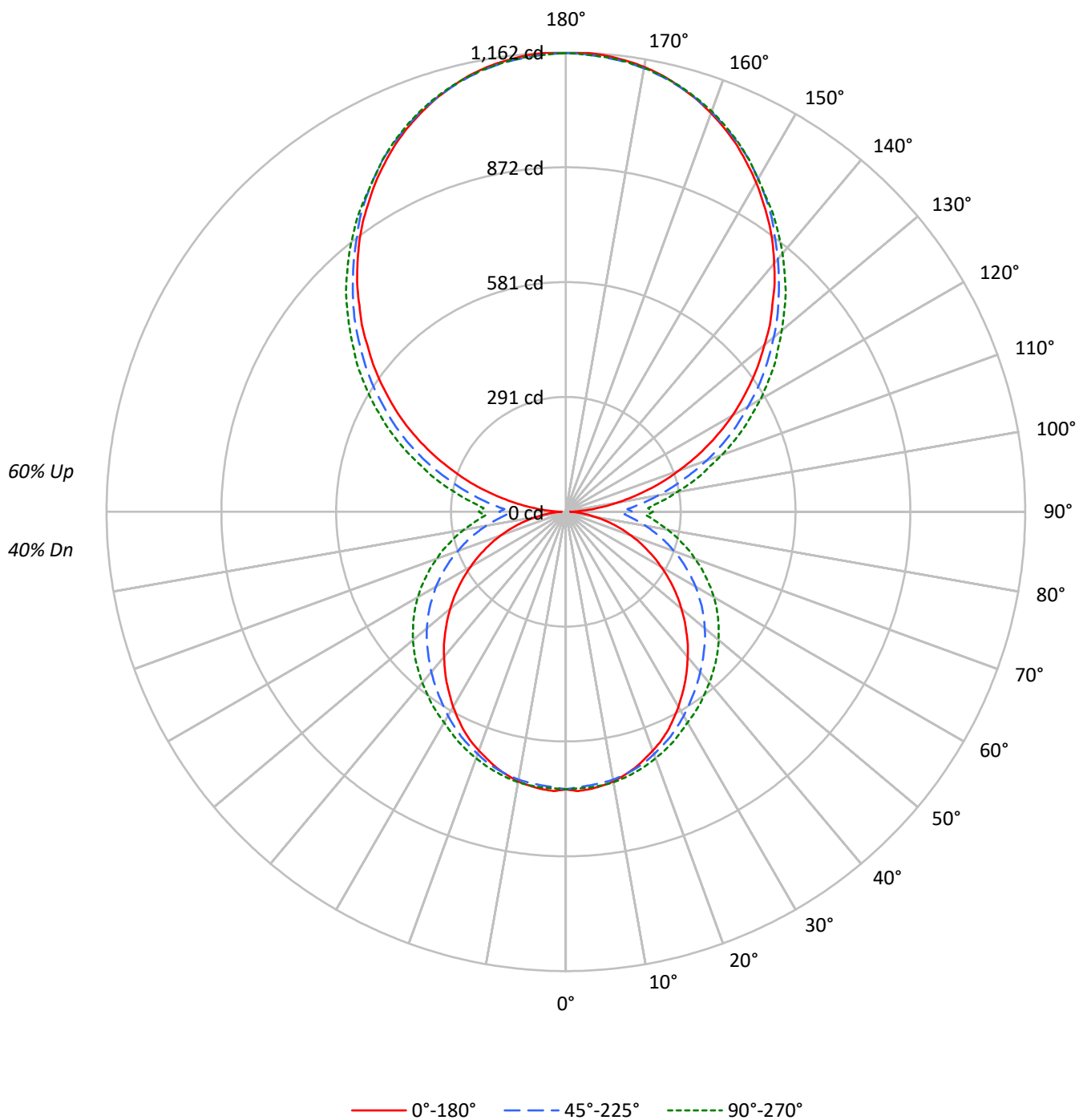
Lumens per Lamp: N/A
Luminaire Lumens: 5927.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	40	40	40
1	94	90	85	81	86	82	78	75	66	64	61	53	51	49	40	38	37	31	31	31
2	85	78	71	65	77	71	65	60	57	53	50	45	42	40	34	32	31	25	25	25
3	78	68	60	54	70	62	55	50	50	45	41	40	36	33	30	28	25	21	21	21
4	71	60	51	45	64	54	47	42	44	39	35	35	31	28	27	24	22	18	18	18
5	65	53	45	38	59	48	41	35	39	34	30	31	27	24	24	21	19	15	15	15
6	60	47	39	33	54	43	36	31	35	30	26	28	24	21	21	18	16	13	13	13
7	55	42	34	29	50	39	32	27	32	26	22	26	21	18	20	17	14	11	11	11
8	51	38	31	25	46	35	28	23	29	24	20	23	19	16	18	15	13	10	10	10
9	47	35	27	22	43	32	25	21	27	21	18	21	17	14	16	14	11	9	9	9
10	44	32	25	20	40	29	23	18	24	19	16	20	16	13	15	12	10	8	8	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11114	11114	11114
5°	11164	10640	10580
10°	11090	10272	10121
15°	10933	9890	9652
20°	10735	9489	9204
25°	10540	9106	8801
30°	10267	8717	8399
35°	9991	8341	8105
40°	9701	8016	7813
45°	9422	7722	7558
50°	9125	7451	7307
55°	8812	7162	7051
60°	8430	6861	6782
65°	8031	6517	6471
70°	7579	6146	6139
75°	7004	5777	5822
80°	6092	5389	5498
85°	5170	5025	5216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.1
10°-20°	190.9	3.2
20°-30°	289.2	4.9
30°-40°	352.2	5.9
40°-50°	379.0	6.4
50°-60°	368.0	6.2
60°-70°	321.4	5.4
70°-80°	247.4	4.2
80°-90°	169.0	2.9
90°-100°	186.1	3.1
100°-110°	311.7	5.3
110°-120°	445.7	7.5
120°-130°	544.3	9.2
130°-140°	589.4	9.9
140°-150°	567.5	9.6
150°-160°	474.2	8.0
160°-170°	314.5	5.3
170°-180°	109.9	1.9
0°-30°	546.7	9.2
0°-40°	898.9	15.2
0°-60°	1645.9	27.8
0°-90°	2383.6	40.2
90°-120°	943.4	15.9
90°-150°	2644.7	44.6
90°-180°	3543.0	59.8
0°-180°	5927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	704	701	695	701	700	67
15°	672	674	674	683	682	189
25°	610	618	627	639	642	281
35°	526	543	563	585	592	329
45°	431	459	494	526	536	333
55°	331	367	420	457	470	296
65°	226	276	336	378	391	224
75°	125	182	247	291	304	132
85°	37	100	165	208	222	39
90°	11	82	169	207	220	10
95°	59	117	180	218	229	63
105°	216	248	303	340	352	228
115°	396	413	457	486	494	391
125°	572	581	610	635	643	512
135°	738	749	761	782	787	571
145°	895	902	908	915	916	560
155°	1023	1026	1029	1034	1031	471
165°	1114	1113	1113	1119	1114	314
175°	1159	1156	1154	1161	1155	110
180°	1161	1161	1161	1161	1161	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.1	702.1	702.1	702.1	702.1
2.5°	707.2	704.1	697.0	702.1	700.1
5°	704.1	701.1	695.0	701.1	700.1
7.5°	699.1	697.0	691.9	699.1	698.0
10°	693.0	690.9	687.9	696.0	695.0
12.5°	682.8	683.8	681.8	689.9	688.9
15°	671.6	673.6	673.6	682.8	681.8
17.5°	657.3	661.4	664.5	673.6	673.6
20°	643.1	648.2	652.2	663.4	663.4
22.5°	627.8	633.9	640.0	651.2	653.3
25°	610.5	617.7	626.8	639.0	642.1
27.5°	590.2	601.4	611.5	626.8	628.8
30°	569.8	583.1	596.3	612.6	615.6
32.5°	547.4	562.7	579.0	598.3	604.4
35°	526.1	543.4	562.7	585.1	592.2
37.5°	502.7	522.0	546.4	570.8	578.0
40°	479.3	501.7	529.1	555.6	564.7
42.5°	456.9	479.3	511.8	541.3	550.5
45°	431.4	458.9	494.5	526.1	536.2
47.5°	407.0	436.5	477.2	509.8	521.0
50°	381.6	413.1	458.9	493.5	504.7
52.5°	357.2	390.7	439.6	475.2	487.4
55°	330.7	367.3	420.2	456.9	470.1
57.5°	305.3	346.0	398.9	438.6	451.8
60°	277.8	321.5	379.5	418.2	432.5
62.5°	253.4	299.2	357.2	398.9	412.1
65°	225.9	275.8	335.8	377.5	390.7
67.5°	201.5	253.4	314.4	356.1	370.4
70°	175.0	227.9	291.0	334.8	347.0
72.5°	150.6	205.5	269.7	312.4	327.7
75°	125.2	182.1	247.3	291.0	304.2
77.5°	100.7	159.8	225.9	269.7	283.9
80°	76.3	138.4	204.5	247.3	261.5
82.5°	56.0	117.0	184.2	226.9	240.1
85°	36.6	99.7	164.8	207.6	221.8
87.5°	22.4	83.4	148.6	190.3	203.5
90°	11.2	81.9	168.6	207.3	220.5
92.5°	30.7	92.5	155.6	196.1	208.4
95°	59.0	116.7	179.7	218.4	228.6
97.5°	92.3	144.9	207.8	245.4	257.7
100°	131.5	177.0	237.0	274.6	284.8
102.5°	171.6	211.1	269.9	307.6	317.8
105°	215.7	248.1	303.0	340.5	351.7
107.5°	260.7	289.0	339.9	375.5	381.8
110°	302.8	329.0	378.9	411.4	419.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	349.8	372.0	417.8	447.4	456.6
115°	395.8	412.9	456.8	486.3	494.5
117.5°	440.9	456.8	494.6	522.3	529.4
120°	486.9	498.7	531.6	560.1	568.4
122.5°	529.0	539.8	572.5	597.1	604.3
125°	572.0	580.8	610.5	635.0	643.2
127.5°	615.1	624.9	648.4	669.9	676.2
130°	655.2	667.0	686.4	708.9	713.0
132.5°	700.3	709.1	725.4	743.9	749.0
135°	738.5	749.2	761.4	781.8	787.0
137.5°	781.6	790.4	797.4	815.8	819.0
140°	819.8	827.6	834.5	850.8	852.9
142.5°	858.9	866.7	869.7	882.9	884.0
145°	895.1	902.0	907.9	915.0	916.1
147.5°	928.4	937.3	941.2	944.1	943.3
150°	962.7	968.6	972.5	975.5	972.5
152.5°	993.1	999.0	1003.9	1007.8	1003.9
155°	1023.4	1026.4	1029.3	1034.2	1031.3
157.5°	1049.9	1051.8	1053.8	1060.7	1055.8
160°	1073.4	1075.4	1076.3	1082.2	1078.3
162.5°	1094.9	1094.9	1095.9	1102.8	1097.9
165°	1113.5	1112.6	1112.6	1119.4	1114.5
167.5°	1130.2	1127.3	1127.3	1134.1	1129.2
170°	1142.9	1140.0	1139.0	1145.9	1140.0
172.5°	1151.7	1148.8	1147.8	1154.7	1148.8
175°	1158.6	1155.7	1153.7	1160.6	1154.7
177.5°	1162.5	1159.6	1157.6	1163.5	1157.6
180°	1160.6	1160.6	1160.6	1160.6	1160.6

(END OF REPORT)