

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: P1009372

Luminaire Tested: S122DIP-B675D725UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009372
REPORT IS A COMBINATION OF REPORTS P984643 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D725UB40-4F0-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

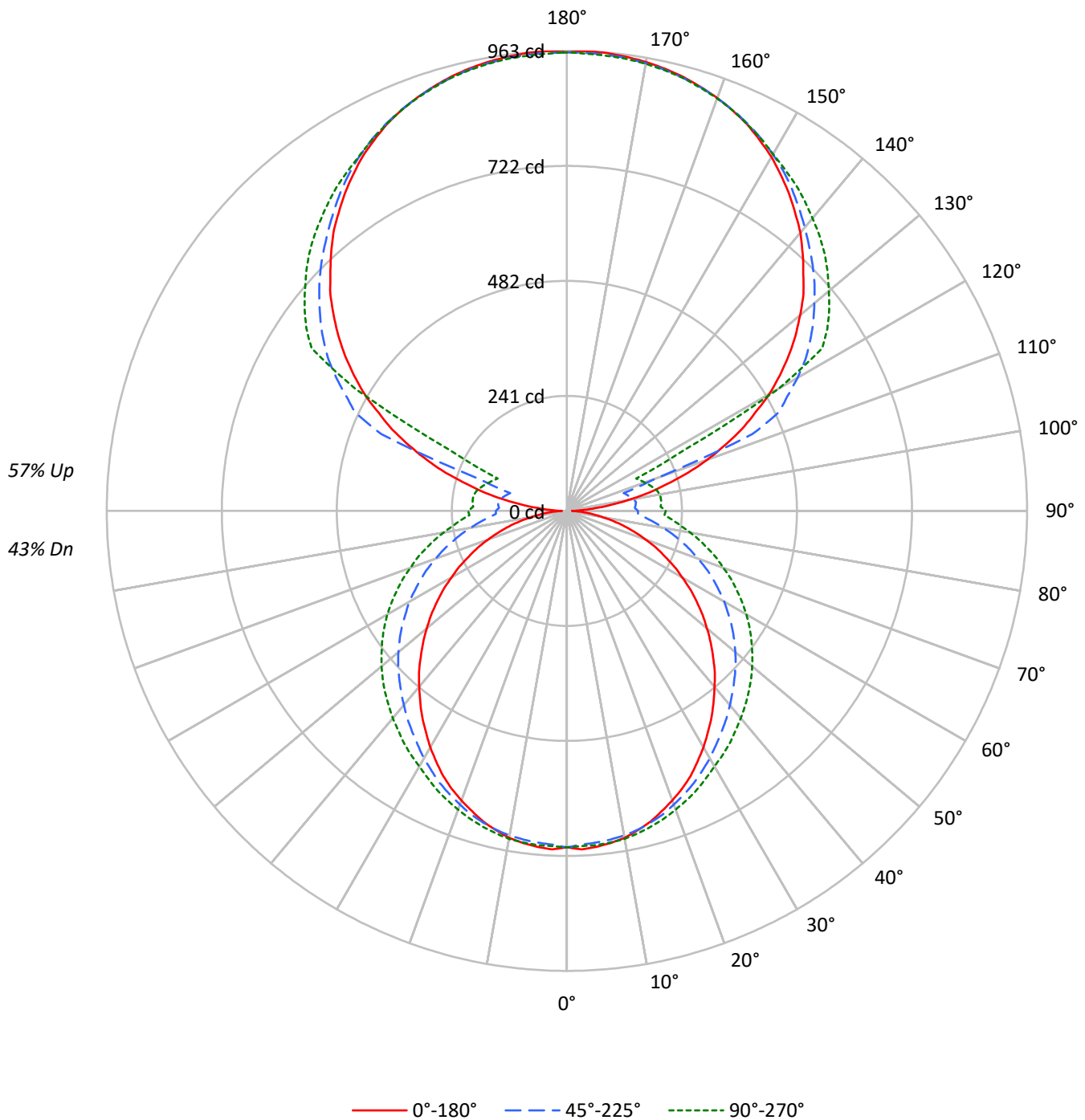
Lumens per Lamp: N/A
Luminaire Lumens: 5503.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50
1	95	90	86	82	87	82	79	75	68	65	63	54	53	51	42	41	40
2	86	78	71	66	78	71	66	61	59	54	51	47	44	41	36	34	32
3	78	68	60	54	71	62	56	50	51	46	42	41	38	34	32	29	27
4	71	60	52	45	65	55	48	42	45	40	35	36	32	29	28	25	23
5	65	53	45	39	59	49	41	36	40	35	30	33	28	25	25	22	20
6	60	48	39	33	54	44	36	31	36	30	26	29	25	22	23	20	17
7	55	43	35	29	50	39	32	27	33	27	23	27	22	19	21	18	15
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	13
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	41	30	23	19	25	20	16	20	16	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11147	11147	11147
5°	11197	10672	10612
10°	11122	10301	10152
15°	10965	9919	9680
20°	10767	9518	9232
25°	10573	9134	8827
30°	10297	8743	8425
35°	10020	8366	8130
40°	9729	8041	7836
45°	9450	7745	7580
50°	9152	7473	7328
55°	8839	7184	7072
60°	8454	6883	6801
65°	8055	6537	6491
70°	7600	6165	6156
75°	7021	5793	5842
80°	6108	5405	5514
85°	5184	5040	5232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9450 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.2
10°-20°	191.5	3.5
20°-30°	290.1	5.3
30°-40°	353.3	6.4
40°-50°	380.1	6.9
50°-60°	369.1	6.7
60°-70°	322.4	5.9
70°-80°	248.1	4.5
80°-90°	167.9	3.1
90°-100°	146.3	2.7
100°-110°	201.7	3.7
110°-120°	368.3	6.7
120°-130°	549.9	10.0
130°-140°	564.3	10.3
140°-150°	514.6	9.4
150°-160°	412.0	7.5
160°-170°	265.5	4.8
170°-180°	91.4	1.7
0°-30°	548.3	10.0
0°-40°	901.6	16.4
0°-60°	1650.8	30.0
0°-90°	2389.1	43.4
90°-120°	716.3	13.0
90°-150°	2345.0	42.6
90°-180°	3114.0	56.6
0°-180°	5503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	706	703	697	703	702	67
15°	674	676	676	685	684	190
25°	612	620	629	641	644	282
35°	528	545	564	587	594	330
45°	433	460	496	528	538	334
55°	332	368	422	458	472	297
65°	227	277	337	379	392	225
75°	126	183	248	292	305	133
85°	37	100	165	208	222	39
90°	11	78	149	193	207	10
95°	53	78	144	187	198	60
105°	216	267	130	174	188	231
115°	404	426	490	199	160	397
125°	567	576	622	654	665	506
135°	700	711	727	756	762	541
145°	811	810	822	833	834	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°	704.2	704.2	704.2	704.2	704.2
2.5°	709.3	706.2	699.1	704.2	702.2
5°	706.2	703.2	697.1	703.2	702.2
7.5°	701.1	699.1	694.0	701.1	700.1
10°	695.0	693.0	689.9	698.1	697.1
12.5°	684.8	685.8	683.8	692.0	690.9
15°	673.6	675.6	675.6	684.8	683.8
17.5°	659.3	663.4	666.4	675.6	675.6
20°	645.0	650.1	654.2	665.4	665.4
22.5°	629.7	635.8	641.9	653.2	655.2
25°	612.4	619.5	628.7	640.9	644.0
27.5°	591.9	603.2	613.4	628.7	630.7
30°	571.5	584.8	598.1	614.4	617.5
32.5°	549.1	564.4	580.7	600.1	606.2
35°	527.6	545.0	564.4	586.8	594.0
37.5°	504.2	523.6	548.1	572.5	579.7
40°	480.7	503.1	530.7	557.2	566.4
42.5°	458.2	480.7	513.4	543.0	552.1
45°	432.7	460.3	496.0	527.6	537.8
47.5°	408.2	437.8	478.7	511.3	522.5
50°	382.7	414.4	460.3	495.0	506.2
52.5°	358.2	391.9	440.9	476.6	488.9
55°	331.7	368.4	421.5	458.2	471.5
57.5°	306.2	347.0	400.1	439.9	453.1
60°	278.6	322.5	380.7	419.5	433.7
62.5°	254.1	300.1	358.2	400.1	413.3
65°	226.6	276.6	336.8	378.6	391.9
67.5°	202.1	254.1	315.4	357.2	371.5
70°	175.5	228.6	291.9	335.8	348.0
72.5°	151.0	206.2	270.5	313.3	328.6
75°	125.5	182.7	248.0	291.9	305.2
77.5°	101.0	160.2	226.6	270.5	284.7
80°	76.5	138.8	205.1	248.0	262.3
82.5°	56.1	117.4	184.7	227.6	240.9
85°	36.7	100.0	165.3	208.2	222.5
87.5°	22.5	83.7	149.0	190.8	204.1
90°	10.9	77.7	148.6	192.9	206.6
92.5°	26.6	77.9	142.2	183.4	196.4
95°	53.4	78.3	144.5	186.7	198.3
97.5°	88.4	75.3	145.6	185.5	198.4
100°	130.0	72.7	141.7	185.0	197.5
102.5°	174.9	207.2	135.9	180.3	193.6
105°	216.3	266.7	130.2	173.5	187.5
107.5°	265.6	307.5	124.4	166.7	180.8
110°	311.8	346.8	196.1	159.3	173.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	356.3	385.1	420.3	153.5	166.8
115°	403.5	426.5	489.8	198.9	160.1
117.5°	443.5	465.5	520.2	451.5	279.7
120°	489.3	503.8	557.2	594.0	511.5
122.5°	528.2	540.4	591.9	623.7	633.6
125°	566.7	575.8	621.7	654.1	665.3
127.5°	602.9	611.6	649.6	682.0	691.9
130°	636.9	647.0	676.1	708.2	715.7
132.5°	671.6	679.7	702.6	732.3	739.8
135°	699.8	710.9	727.4	755.8	762.5
137.5°	730.4	738.7	750.7	777.1	782.2
140°	760.2	764.8	774.4	797.1	799.7
142.5°	785.2	789.1	798.1	815.9	817.5
145°	810.6	809.9	821.7	832.7	834.3
147.5°	833.6	831.5	843.3	847.8	848.1
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)