

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: P1009373

Luminaire Tested: S122DIP-B675D725UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009373
REPORT IS A COMBINATION OF REPORTS P984644 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-D1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

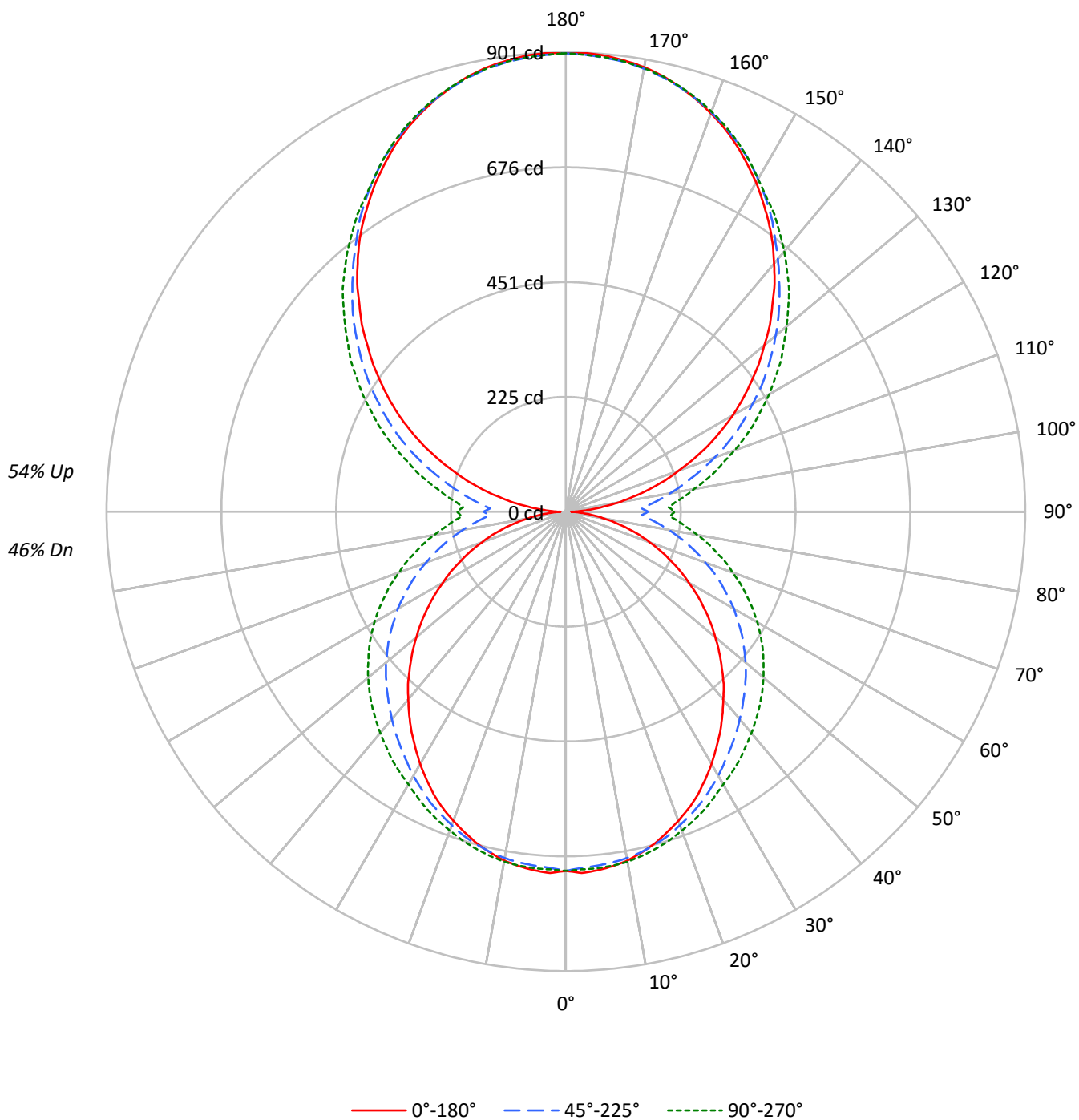
Lumens per Lamp: N/A
Luminaire Lumens: 5204.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	81	81	81	66	66	66	52	52	52
1	95	91	86	82	87	83	79	76	69	66	64	56	54	52	44	43	41
2	86	78	72	66	79	72	66	61	60	55	52	48	45	43	38	36	34
3	78	68	61	54	71	63	56	50	52	47	43	42	39	35	33	31	28
4	72	60	52	46	65	55	48	42	46	40	36	37	33	30	29	26	24
5	66	53	45	39	60	49	42	36	41	35	31	33	29	26	26	23	21
6	60	48	39	33	55	44	36	31	37	31	27	30	26	22	24	21	18
7	56	43	35	29	51	40	32	27	33	27	23	27	23	20	22	18	16
8	52	39	31	25	47	36	29	24	30	25	21	25	20	17	20	17	14
9	48	35	28	23	44	33	26	21	28	22	18	23	19	15	18	15	13
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	14	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	1.3
10°-20°	191.5	3.7
20°-30°	290.1	5.6
30°-40°	353.3	6.8
40°-50°	380.1	7.3
50°-60°	369.1	7.1
60°-70°	322.4	6.2
70°-80°	248.1	4.8
80°-90°	168.7	3.2
90°-100°	170.3	3.3
100°-110°	260.6	5.0
110°-120°	357.9	6.9
120°-130°	428.8	8.2
130°-140°	459.7	8.8
140°-150°	440.3	8.5
150°-160°	367.5	7.1
160°-170°	243.7	4.7
170°-180°	85.2	1.6
0°-30°	548.3	10.5
0°-40°	901.6	17.3
0°-60°	1650.8	31.7
0°-90°	2390.0	45.9
90°-120°	788.8	15.2
90°-150°	2117.6	40.7
90°-180°	2814.0	54.1
0°-180°	5204.0	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	79	161	200	214	10
95°	48	103	166	205	216	50
105°	168	200	255	292	303	178
115°	308	323	368	398	407	304
125°	444	450	481	506	515	397
135°	572	581	593	613	619	443
145°	694	699	704	710	712	434
155°	793	795	798	802	799	365
165°	863	862	862	868	864	243
175°	898	896	894	899	895	85
180°	899	899	899	899	899	

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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°	11.0	79.3	161.3	200.5	213.6
92.5°	25.9	86.1	149.0	189.6	201.9
95°	47.7	103.2	166.0	204.7	215.5
97.5°	73.1	123.9	186.1	223.9	236.1
100°	103.5	147.4	206.8	244.5	255.0
102.5°	134.4	172.6	230.8	268.3	278.8
105°	168.3	200.2	254.8	292.0	303.2
107.5°	203.2	230.7	281.7	317.2	324.7
110°	235.6	260.5	310.5	343.2	352.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	272.0	292.9	339.1	369.4	379.1
115°	307.7	323.4	367.8	397.8	406.7
117.5°	342.4	356.5	395.6	424.0	431.9
120°	378.0	388.1	422.9	451.4	460.4
122.5°	410.7	419.2	453.2	478.5	486.2
125°	443.7	450.5	481.0	506.3	514.6
127.5°	477.1	484.5	509.0	531.5	538.4
130°	508.2	517.1	537.1	560.0	565.1
132.5°	543.1	549.7	565.8	585.5	591.4
135°	572.5	580.8	592.6	613.3	619.1
137.5°	605.9	612.7	619.3	638.0	642.1
140°	635.5	641.3	647.1	663.5	666.6
142.5°	665.8	671.7	674.0	686.9	689.0
145°	693.7	699.0	703.6	710.4	712.5
147.5°	719.5	726.3	729.4	731.9	731.9
150°	746.1	750.6	753.6	755.9	753.6
152.5°	769.6	774.1	777.9	781.0	777.9
155°	793.1	795.4	797.7	801.5	799.2
157.5°	813.6	815.1	816.6	821.9	818.2
160°	831.8	833.3	834.1	838.6	835.6
162.5°	848.5	848.5	849.3	854.6	850.8
165°	862.9	862.2	862.2	867.5	863.7
167.5°	875.8	873.6	873.6	878.9	875.1
170°	885.7	883.4	882.7	888.0	883.4
172.5°	892.5	890.3	889.5	894.8	890.3
175°	897.8	895.6	894.0	899.4	894.8
177.5°	900.9	898.6	897.1	901.6	897.1
180°	899.4	899.4	899.4	899.4	899.4

(END OF REPORT)