

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: P1011880

Luminaire Tested: S123DIP-B560D805UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011880
REPORT IS A COMBINATION OF REPORTS P990204 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D805UB40-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

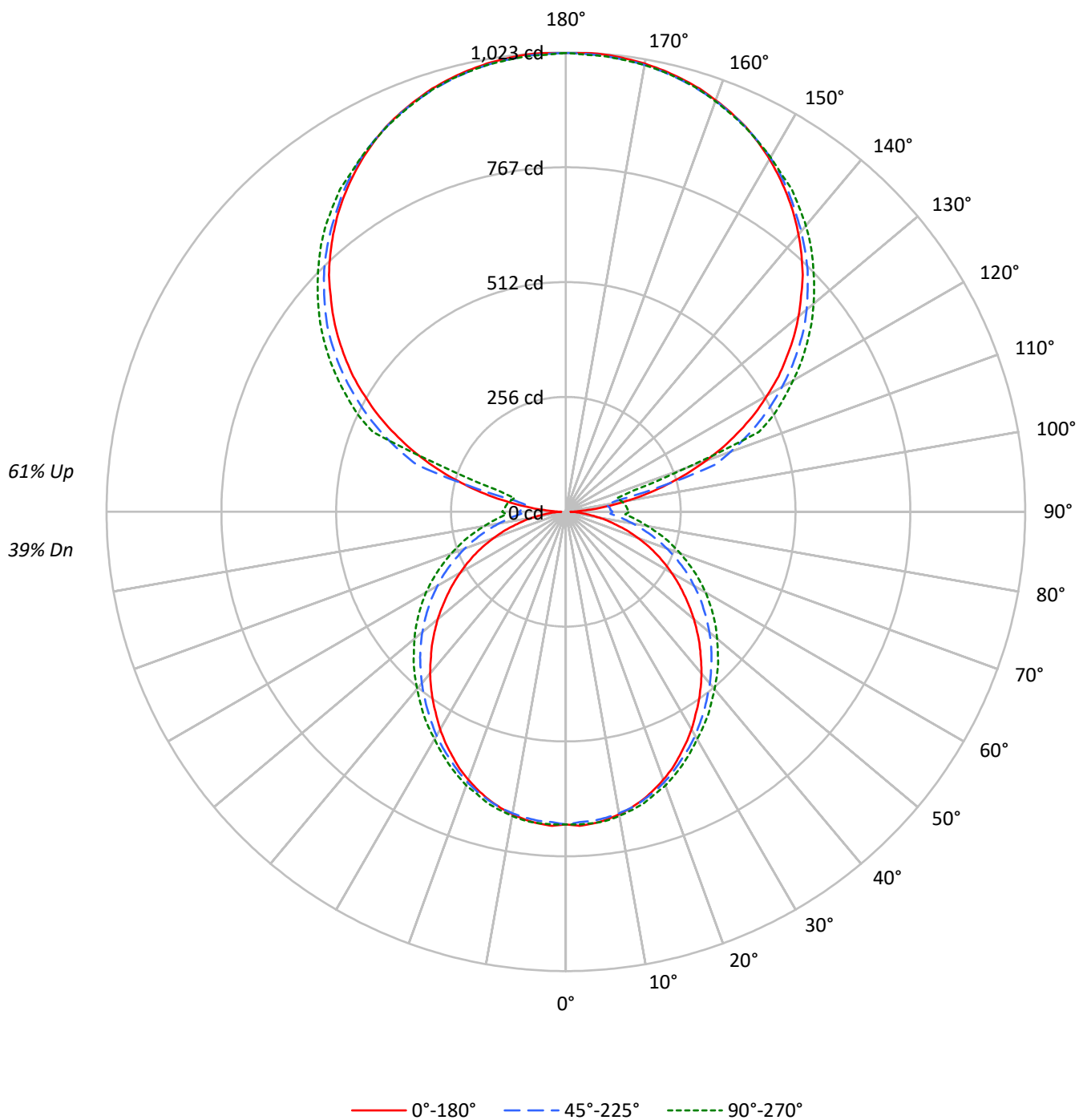
Lumens per Lamp: N/A
Luminaire Lumens: 5457.0 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 45.1
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46
1	95	90	86	82	86	82	78	75	67	64	62	53	51	49	40	38	37
2	86	78	72	66	78	71	66	61	58	54	50	46	43	40	34	33	31
3	78	68	61	55	70	62	56	50	51	46	42	40	37	34	30	28	26
4	71	60	52	46	64	55	48	42	45	40	35	36	32	29	27	24	22
5	65	53	45	39	59	49	42	36	40	35	30	32	28	25	24	21	19
6	60	48	40	34	54	44	37	31	36	30	26	29	25	21	22	19	17
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15
8	51	39	31	26	46	36	29	24	29	24	20	24	20	17	18	15	13
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7495	7495	7495
5°	7515	7275	7269
10°	7444	7078	7023
15°	7347	6860	6764
20°	7206	6618	6484
25°	7034	6344	6195
30°	6858	6097	5905
35°	6661	5837	5668
40°	6471	5601	5418
45°	6263	5371	5212
50°	6056	5144	4988
55°	5827	4910	4783
60°	5602	4671	4572
65°	5371	4417	4325
70°	5027	4132	4071
75°	4588	3807	3809
80°	4077	3477	3510
85°	3573	3211	3296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6263 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	1.2
10°-20°	188.3	3.5
20°-30°	281.6	5.2
30°-40°	336.2	6.2
40°-50°	351.8	6.4
50°-60°	330.1	6.0
60°-70°	275.7	5.1
70°-80°	197.1	3.6
80°-90°	119.4	2.2
90°-100°	109.7	2.0
100°-110°	228.4	4.2
110°-120°	463.1	8.5
120°-130°	562.6	10.3
130°-140°	588.2	10.8
140°-150°	543.3	10.0
150°-160°	436.7	8.0
160°-170°	281.8	5.2
170°-180°	97.1	1.8
0°-30°	535.9	9.8
0°-40°	872.1	16.0
0°-60°	1553.9	28.5
0°-90°	2146.1	39.3
90°-120°	801.2	14.7
90°-150°	2495.3	45.7
90°-180°	3311.0	60.7
0°-180°	5457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	697	696	691	697	696	66
15°	664	666	665	673	672	187
25°	599	607	609	619	619	276
35°	516	528	538	549	552	323
45°	422	440	459	473	479	325
55°	322	347	374	394	400	288
65°	222	252	285	308	316	220
75°	121	156	194	219	228	129
85°	37	75	115	141	149	38
90°	11	55	104	133	142	10
95°	55	53	99	127	135	62
105°	232	259	223	110	118	246
115°	428	442	476	502	511	423
125°	600	607	632	649	656	537
135°	746	750	761	777	779	575
145°	860	865	866	874	877	538
155°	947	945	946	950	945	436
165°	998	996	995	1001	996	282
175°	1022	1018	1019	1024	1018	97
180°	1022	1022	1022	1022	1022	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.3	696.3	696.3	696.3	696.3
2.5°	700.1	697.8	691.7	697.8	697.0
5°	697.0	695.5	691.0	697.0	696.3
7.5°	691.7	691.7	687.2	694.7	694.0
10°	684.1	685.6	681.9	689.4	687.9
12.5°	675.0	677.3	675.0	681.9	680.3
15°	663.7	665.9	665.2	672.8	672.0
17.5°	650.0	654.6	653.8	660.6	659.1
20°	634.8	639.4	640.9	647.7	648.5
22.5°	618.9	623.5	625.7	634.8	634.1
25°	599.2	606.8	609.0	618.9	618.9
27.5°	580.2	588.6	593.1	601.5	602.2
30°	559.7	569.6	575.7	584.8	584.8
32.5°	537.0	548.4	556.7	566.6	568.8
35°	515.8	527.9	537.7	549.1	552.2
37.5°	493.0	506.7	518.0	530.9	533.2
40°	470.2	483.9	499.1	512.0	515.0
42.5°	445.2	462.7	478.6	493.0	497.5
45°	421.7	439.9	458.9	473.3	479.3
47.5°	396.7	417.2	438.4	454.3	458.9
50°	372.4	393.6	417.2	434.6	439.9
52.5°	346.6	369.4	395.9	414.1	420.9
55°	321.6	346.6	373.9	394.4	400.5
57.5°	297.3	323.1	352.7	373.2	380.0
60°	271.5	298.8	329.9	351.2	359.5
62.5°	247.3	275.3	308.7	329.9	337.5
65°	222.2	251.8	285.2	307.9	315.5
67.5°	197.2	228.3	261.7	286.7	292.8
70°	170.7	203.3	239.7	263.9	271.5
72.5°	146.4	179.0	216.9	241.9	249.5
75°	120.6	156.2	194.2	219.2	228.3
77.5°	98.6	134.2	172.2	198.7	205.5
80°	75.1	112.3	151.7	177.5	185.1
82.5°	54.6	92.5	132.7	158.5	166.1
85°	37.2	75.1	115.3	141.1	148.7
87.5°	22.8	60.7	99.4	125.1	132.7
90°	10.7	55.4	103.9	132.8	141.9
92.5°	26.6	54.6	99.3	129.8	137.3
95°	54.6	53.1	98.6	127.4	135.0
97.5°	91.9	97.9	94.8	123.7	132.0
100°	135.1	174.6	91.1	119.1	127.5
102.5°	184.5	215.6	117.6	113.8	122.9
105°	232.3	258.9	223.1	110.0	118.3
107.5°	282.4	305.1	347.6	251.2	158.5
110°	332.5	352.2	390.9	385.6	283.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	381.1	397.0	434.2	460.0	465.3
115°	428.1	441.8	475.9	501.7	510.9
117.5°	475.2	486.6	516.1	540.5	547.3
120°	517.7	528.3	555.7	579.2	584.5
122.5°	561.7	568.6	595.2	615.6	621.7
125°	600.5	606.6	631.6	649.0	655.8
127.5°	640.0	645.2	668.0	685.4	689.3
130°	676.4	681.7	699.9	717.3	720.3
132.5°	710.5	716.6	730.3	746.9	750.0
135°	746.2	750.0	761.4	777.4	778.8
137.5°	776.6	781.9	788.8	804.6	806.9
140°	806.2	810.8	815.3	829.7	832.0
142.5°	834.3	838.1	840.3	852.5	854.0
145°	860.1	864.6	866.2	873.8	876.8
147.5°	884.4	888.2	889.7	893.5	892.7
150°	907.1	909.4	910.9	912.5	911.7
152.5°	927.6	928.4	929.2	932.2	928.4
155°	946.6	945.1	945.9	949.7	945.1
157.5°	961.8	961.8	961.0	965.6	959.5
160°	975.5	974.7	973.9	978.5	973.2
162.5°	988.4	986.1	985.3	990.6	986.1
165°	998.2	996.0	995.2	1001.3	996.0
167.5°	1006.6	1003.6	1003.6	1009.6	1003.6
170°	1013.4	1010.4	1010.4	1016.5	1010.4
172.5°	1018.0	1014.2	1014.9	1021.0	1014.2
175°	1021.8	1018.0	1018.7	1024.0	1018.0
177.5°	1023.3	1019.5	1020.3	1026.3	1018.7
180°	1021.8	1021.8	1021.8	1021.8	1021.8

(END OF REPORT)