

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: P1011882

Luminaire Tested: S123DIP-B560D805UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011882
REPORT IS A COMBINATION OF REPORTS P990206 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-D4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

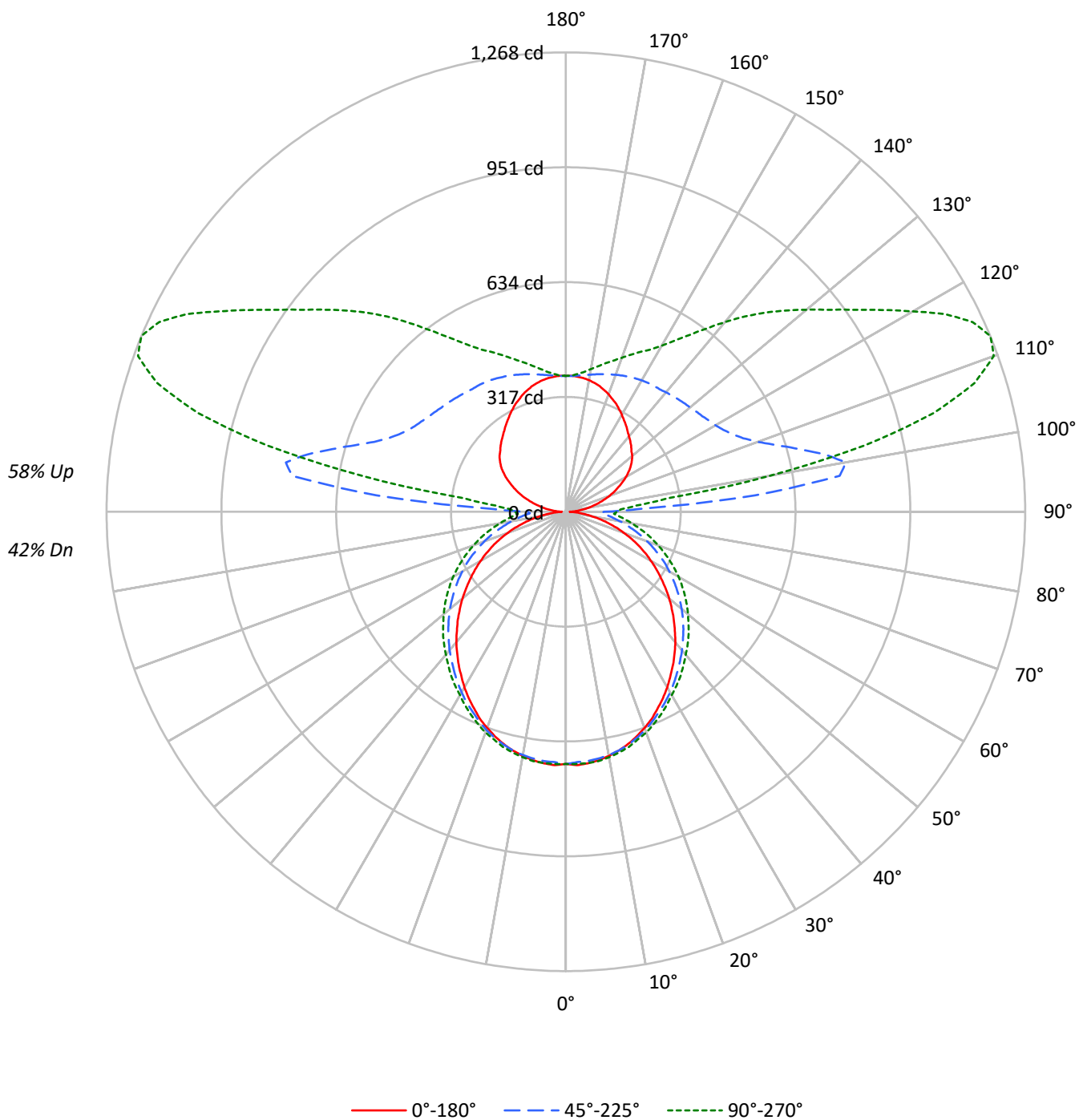
Lumens per Lamp: N/A
Luminaire Lumens: 5169.6 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	96	96	96	96	79	79	79	63	63	63	48	48	48
1	95	90	86	82	86	82	79	76	68	65	63	54	52	50	41	40	39
2	86	78	72	67	78	72	66	61	59	55	51	47	44	41	36	34	32
3	78	69	61	55	71	63	56	51	51	47	43	41	38	35	31	29	27
4	72	60	52	46	65	55	48	43	46	40	36	36	33	29	28	25	23
5	66	54	45	39	59	49	42	36	41	35	31	33	29	25	25	22	20
6	60	48	40	34	55	44	37	32	36	31	27	29	25	22	23	20	17
7	56	43	35	30	50	40	33	28	33	27	23	27	22	19	21	18	15
8	52	39	31	26	47	36	29	24	30	25	21	24	20	17	19	16	14
9	48	36	28	23	44	33	26	22	27	22	18	22	18	15	17	15	12
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	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	1.3
10°-20°	188.3	3.6
20°-30°	281.6	5.4
30°-40°	336.2	6.5
40°-50°	351.8	6.8
50°-60°	330.1	6.4
60°-70°	275.7	5.3
70°-80°	197.1	3.8
80°-90°	119.4	2.3
90°-100°	286.8	5.5
100°-110°	649.8	12.6
110°-120°	617.0	11.9
120°-130°	483.1	9.3
130°-140°	374.4	7.2
140°-150°	274.3	5.3
150°-160°	190.0	3.7
160°-170°	111.6	2.2
170°-180°	36.3	0.7
0°-30°	535.9	10.4
0°-40°	872.1	16.9
0°-60°	1553.9	30.1
0°-90°	2146.2	41.5
90°-120°	1553.7	30.1
90°-150°	2685.5	51.9
90°-180°	3023.0	58.5
0°-180°	5169.6	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	56	105	133	141	9
95°	34	122	525	230	194	34
105°	94	154	667	1145	1050	100
115°	159	207	507	1082	1239	158
125°	219	258	460	830	972	194
135°	255	303	439	673	777	197
145°	290	331	424	539	596	182
155°	329	354	411	467	487	151
165°	359	369	393	417	424	101
175°	374	375	377	383	382	36
180°	375	375	375	375	375	

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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°	11.4	56.2	104.7	132.8	141.1
92.5°	20.5	87.2	220.8	152.9	151.7
95°	34.1	121.8	525.3	230.0	194.3
97.5°	48.6	131.0	762.8	423.6	281.6
100°	63.0	137.0	784.9	778.8	571.6
102.5°	78.2	144.6	731.0	1007.7	844.1
105°	94.2	154.5	667.3	1145.4	1050.5
107.5°	110.1	166.6	610.3	1202.8	1183.4
110°	127.6	179.1	563.2	1200.2	1257.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	144.3	192.4	529.9	1152.0	1268.5
115°	159.4	206.8	507.1	1082.1	1238.9
117.5°	175.4	219.8	489.6	1007.8	1181.2
120°	191.3	232.7	477.5	937.2	1106.0
122.5°	205.7	245.6	468.4	880.5	1036.2
125°	218.7	257.8	460.0	829.7	971.7
127.5°	229.3	270.6	454.0	787.2	915.5
130°	239.2	282.8	447.9	747.7	867.6
132.5°	245.9	293.8	443.3	710.5	822.2
135°	255.1	303.4	438.8	673.0	777.3
137.5°	263.4	311.7	434.3	636.6	731.0
140°	271.1	319.3	430.4	601.6	683.2
142.5°	280.2	325.3	425.9	568.6	637.7
145°	290.0	331.4	424.4	539.4	595.9
147.5°	299.1	337.8	422.1	515.8	560.2
150°	309.0	343.2	419.0	496.1	529.1
152.5°	318.8	348.8	415.3	480.9	504.8
155°	328.7	354.5	410.7	466.8	486.6
157.5°	336.3	359.5	406.9	453.2	469.2
160°	345.4	363.6	402.3	440.6	452.5
162.5°	352.2	366.6	397.8	428.9	437.3
165°	359.1	369.4	393.2	417.2	424.4
167.5°	364.4	371.6	388.7	406.9	411.5
170°	368.9	372.8	384.1	397.8	400.1
172.5°	372.0	373.9	380.3	389.8	389.4
175°	374.3	374.6	377.3	382.6	381.9
177.5°	375.8	375.0	375.0	378.1	376.5
180°	375.0	375.0	375.0	375.0	375.0

(END OF REPORT)