

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: P1011797

Luminaire Tested: S123DIP-B560D365UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011797
REPORT IS A COMBINATION OF REPORTS P990085 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D365UB40-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

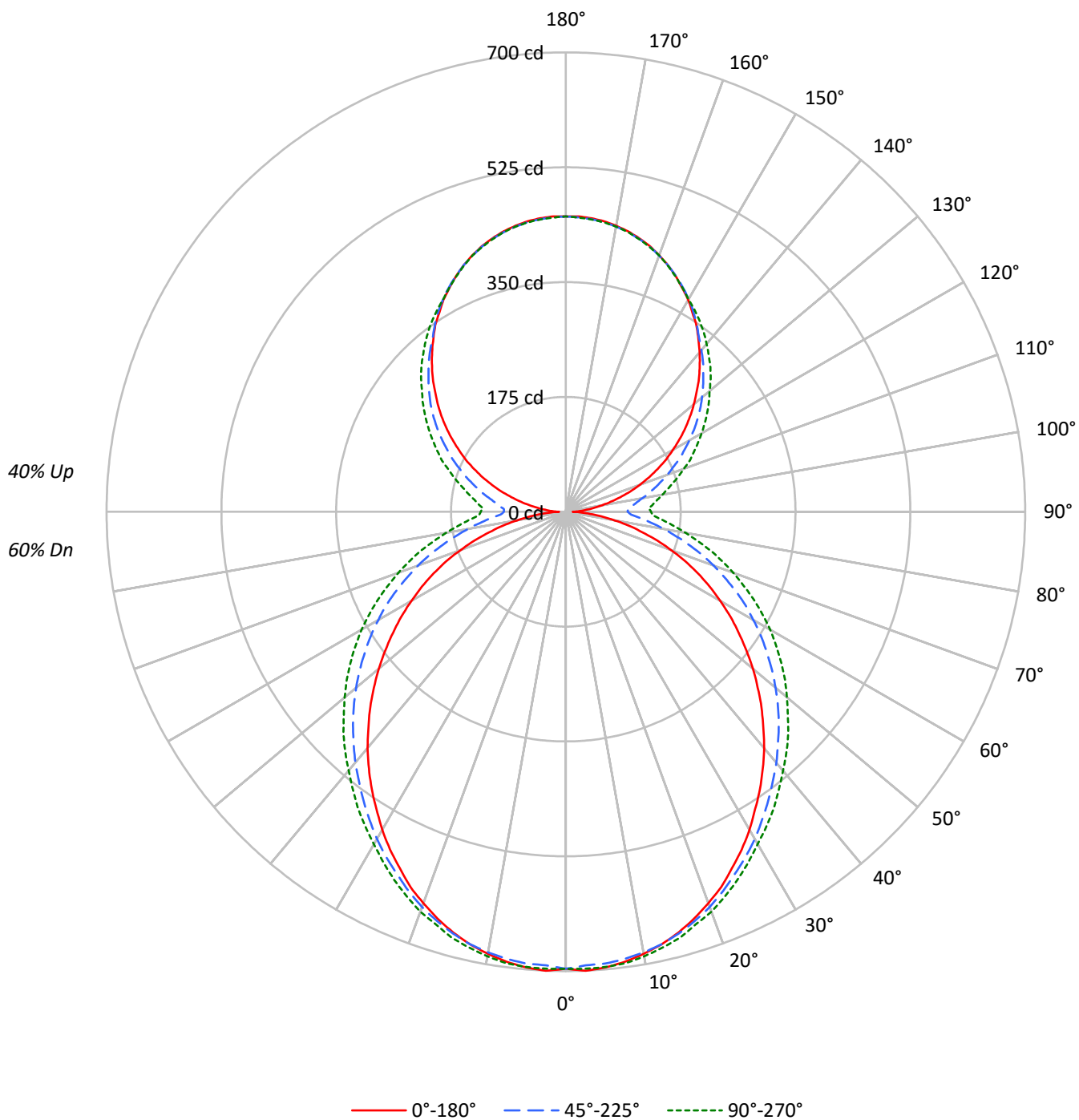
Lumens per Lamp: N/A
Luminaire Lumens: 3588.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 33.3
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	109	109	109	109		102	102	102	102		89	89	89		76	76	76		65	65	65
1	99	94	89	85		92	88	84	80		76	73	70		65	63	61		56	54	52
2	89	81	74	69		83	76	70	65		66	61	57		57	53	50		48	46	43
3	81	71	63	57		75	66	59	54		58	52	48		50	45	42		42	39	36
4	74	63	54	48		69	59	51	45		51	45	40		44	39	36		38	34	31
5	68	56	47	41		63	52	44	39		46	39	35		39	35	31		34	30	27
6	63	50	41	35		58	47	39	33		41	35	30		36	31	27		31	27	23
7	58	45	37	31		54	42	35	29		37	31	26		32	27	24		28	24	21
8	54	41	33	27		50	38	31	26		34	28	23		30	25	21		26	22	19
9	50	37	30	24		47	35	28	23		31	25	21		27	22	19		24	20	17
10	47	34	27	22		44	32	25	21		29	23	19		25	20	17		22	18	15

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	1.8
10°-20°	188.3	5.2
20°-30°	281.6	7.8
30°-40°	336.2	9.4
40°-50°	351.8	9.8
50°-60°	330.1	9.2
60°-70°	275.7	7.7
70°-80°	197.1	5.5
80°-90°	118.3	3.3
90°-100°	102.7	2.9
100°-110°	141.9	4.0
110°-120°	185.5	5.2
120°-130°	217.0	6.0
130°-140°	230.0	6.4
140°-150°	219.0	6.1
150°-160°	182.7	5.1
160°-170°	121.6	3.4
170°-180°	42.6	1.2
0°-30°	535.9	14.9
0°-40°	872.1	24.3
0°-60°	1553.9	43.3
0°-90°	2145.0	59.8
90°-120°	430.0	12.0
90°-150°	1096.0	30.5
90°-180°	1443.0	40.2
0°-180°	3588.0	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°	10	51	94	121	130	9
95°	29	61	101	126	134	29
105°	86	105	140	162	169	91
115°	154	164	191	209	215	153
125°	222	223	245	259	263	198
135°	287	288	296	308	312	221
145°	347	347	348	354	355	217
155°	396	396	397	398	396	182
165°	432	431	431	433	430	122
175°	449	448	448	450	447	43
180°	450	450	450	450	450	

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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°	10.3	50.9	94.2	121.4	129.7
92.5°	19.7	54.4	94.4	120.6	126.7
95°	29.2	61.2	101.3	126.2	133.8
97.5°	41.9	71.0	108.7	133.3	140.5
100°	54.9	81.3	118.0	141.0	149.3
102.5°	70.1	92.4	128.9	151.3	158.5
105°	85.6	104.6	140.3	161.5	169.0
107.5°	103.2	119.5	152.0	173.6	180.0
110°	119.5	133.8	164.8	186.0	191.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	137.2	148.1	176.9	197.7	204.5
115°	154.1	164.2	190.8	209.4	215.1
117.5°	172.1	178.5	203.5	221.8	226.8
120°	187.9	193.8	217.2	234.2	238.8
122.5°	205.2	208.2	231.0	246.6	250.9
125°	222.2	223.3	244.6	259.0	262.9
127.5°	238.5	239.8	258.1	271.1	275.0
130°	254.7	256.8	270.9	283.9	285.9
132.5°	270.2	273.0	283.7	295.5	299.2
135°	286.8	288.2	296.2	308.5	311.5
137.5°	302.0	303.1	309.4	319.8	322.5
140°	317.2	319.0	321.5	332.6	333.9
142.5°	331.7	332.7	333.4	342.9	345.0
145°	346.9	346.8	347.9	353.6	355.2
147.5°	359.2	360.6	361.7	364.0	364.9
150°	373.0	373.7	374.4	374.4	373.8
152.5°	384.3	385.4	385.7	386.4	384.7
155°	396.3	396.3	396.7	398.1	395.6
157.5°	406.6	406.2	406.6	408.0	405.9
160°	416.1	415.4	415.4	417.2	415.8
162.5°	424.6	423.5	423.9	425.7	423.2
165°	431.7	430.6	430.6	432.7	430.3
167.5°	437.7	436.3	436.6	438.8	436.6
170°	442.6	441.2	441.2	443.7	441.2
172.5°	446.5	445.1	445.1	447.2	444.8
175°	449.0	447.6	447.6	449.7	447.2
177.5°	450.4	449.0	449.0	451.1	448.7
180°	450.1	450.1	450.1	450.1	450.1

(END OF REPORT)