

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: P1011782

Luminaire Tested: S123DIP-B560D365UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011782
REPORT IS A COMBINATION OF REPORTS P990070 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D365UB30-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

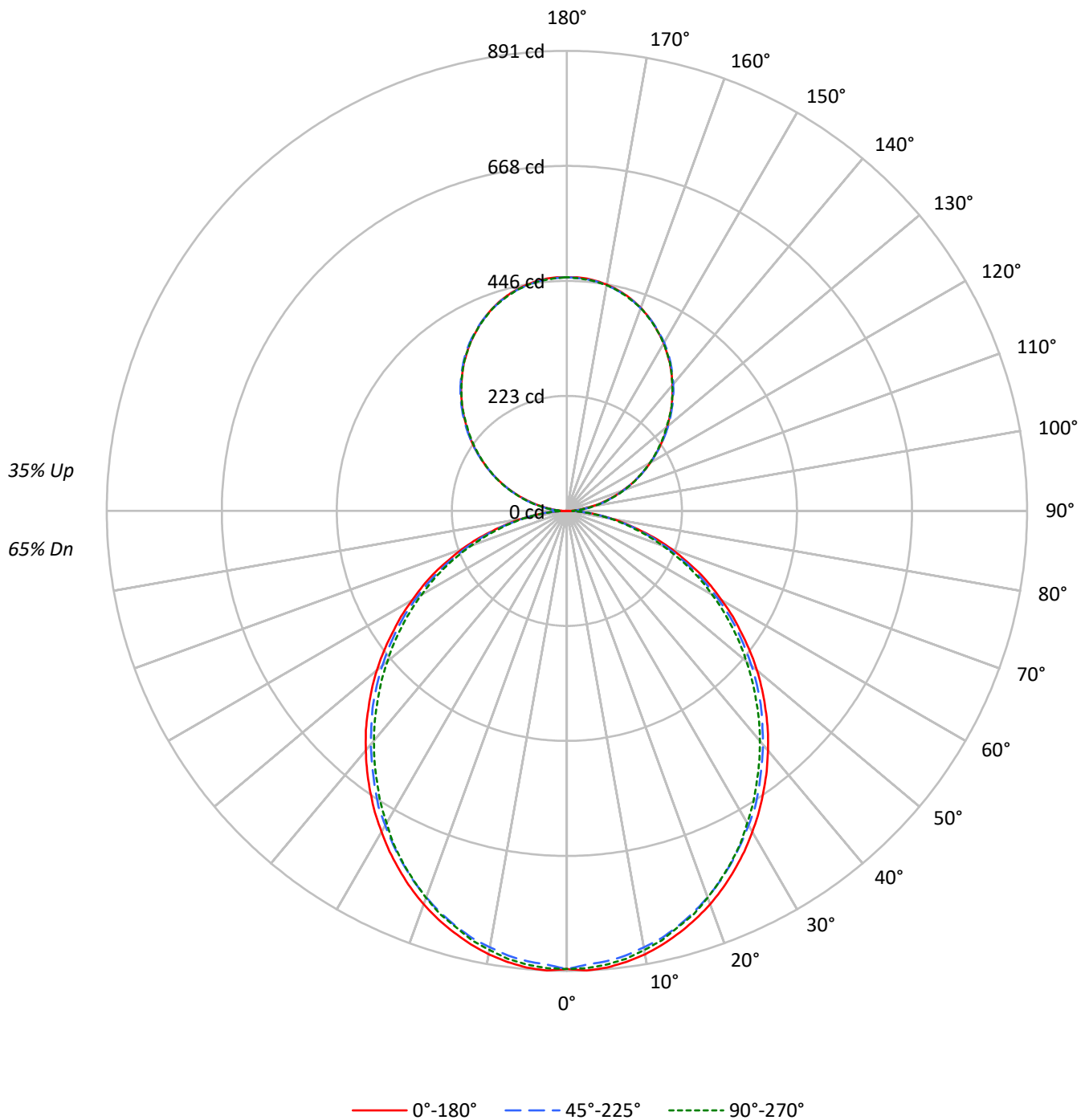
Lumens per Lamp: N/A
Luminaire Lumens: 3564.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	101	97	93	89	95	91	87	84	80	78	75	71	69	67	62	60	59
2	92	84	78	73	86	79	74	69	70	66	62	62	59	56	54	52	49
3	84	74	67	61	79	70	63	58	62	57	52	55	51	47	48	45	42
4	77	66	57	51	72	62	55	49	55	49	45	49	44	40	43	39	36
5	71	59	50	44	66	55	48	42	49	43	39	44	39	35	39	35	32
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25
8	56	43	35	30	53	41	34	29	37	31	27	33	28	24	29	25	22
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9550	9550	9550
5°	9574	9221	9207
10°	9488	8908	8817
15°	9356	8584	8392
20°	9205	8223	7971
25°	9009	7843	7521
30°	8795	7450	7048
35°	8571	7048	6578
40°	8336	6626	6115
45°	8078	6214	5632
50°	7815	5757	5147
55°	7478	5279	4656
60°	7131	4753	4133
65°	6805	4183	3588
70°	6334	3551	2951
75°	5660	2811	2291
80°	4886	1976	1620
85°	3813	1061	811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8078 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	2.3
10°-20°	236.2	6.6
20°-30°	348.8	9.8
30°-40°	407.4	11.4
40°-50°	409.5	11.5
50°-60°	359.8	10.1
60°-70°	267.9	7.5
70°-80°	152.5	4.3
80°-90°	44.3	1.2
90°-100°	29.1	0.8
100°-110°	88.2	2.5
110°-120°	150.1	4.2
120°-130°	197.5	5.5
130°-140°	222.0	6.2
140°-150°	218.2	6.1
150°-160°	183.7	5.2
160°-170°	122.3	3.4
170°-180°	42.8	1.2
0°-30°	668.6	18.8
0°-40°	1076.0	30.2
0°-60°	1845.2	51.8
0°-90°	2309.9	64.8
90°-120°	267.5	7.5
90°-150°	905.2	25.4
90°-180°	1254.0	35.2
0°-180°	3564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	888	884	876	883	882	84
15°	845	842	832	838	834	238
25°	767	763	753	754	751	354
35°	664	659	649	645	641	415
45°	544	541	531	522	518	420
55°	413	412	402	394	390	370
65°	282	278	270	264	262	278
75°	149	146	143	140	137	159
85°	40	38	38	37	37	43
90°	0	4	8	10	11	4
95°	21	24	26	28	28	23
105°	80	81	84	84	85	86
115°	151	152	152	152	152	150
125°	221	222	222	220	219	197
135°	287	289	289	287	287	221
145°	348	349	350	350	348	217
155°	398	398	399	400	398	183
165°	434	433	433	435	433	122
175°	452	450	450	452	450	43
180°	453	453	453	453	453	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.2	887.2	887.2	887.2	887.2
2.5°	891.0	888.0	879.6	887.2	886.4
5°	888.0	884.2	875.8	883.4	881.9
7.5°	881.1	877.3	868.9	875.8	875.0
10°	871.9	868.1	858.2	865.1	863.6
12.5°	859.7	856.7	847.5	852.1	851.4
15°	845.2	842.2	832.3	838.4	833.8
17.5°	829.2	825.4	815.5	820.1	818.5
20°	810.9	806.3	796.4	799.5	797.2
22.5°	790.3	785.7	775.8	778.1	775.1
25°	767.4	762.9	752.9	753.7	751.4
27.5°	743.8	739.2	728.5	729.3	727.0
30°	717.8	714.0	703.4	703.4	698.0
32.5°	691.9	686.6	678.9	673.6	671.3
35°	663.7	659.1	649.2	644.6	640.8
37.5°	635.5	629.4	619.4	614.1	611.8
40°	605.7	601.1	590.5	584.3	581.3
42.5°	576.0	570.6	559.9	553.8	550.8
45°	543.9	540.9	530.9	521.8	518.0
47.5°	512.6	508.1	498.9	489.8	486.7
50°	480.6	476.8	466.9	458.5	453.9
52.5°	447.0	444.7	434.1	427.2	422.6
55°	412.7	411.9	402.0	393.6	389.8
57.5°	380.7	377.6	370.0	362.4	357.8
60°	345.6	344.8	335.7	328.8	325.0
62.5°	314.3	312.0	302.9	296.0	293.7
65°	281.5	277.7	270.1	263.9	261.7
67.5°	246.4	243.4	237.2	231.9	228.9
70°	215.1	210.5	206.0	200.6	196.8
72.5°	182.3	179.3	173.9	169.4	167.8
75°	148.8	145.7	143.4	139.6	137.3
77.5°	119.0	117.5	114.4	111.4	111.4
80°	90.0	87.7	86.2	85.4	85.4
82.5°	61.8	61.8	61.8	60.3	59.5
85°	39.7	38.1	38.1	36.6	36.6
87.5°	19.8	17.5	16.8	16.0	16.0
90°	0.4	3.9	8.5	10.0	10.7
92.5°	10.7	12.8	14.9	16.0	15.3
95°	21.0	23.5	26.3	27.7	27.7
97.5°	34.5	36.3	38.4	40.2	39.8
100°	48.4	50.5	52.3	53.3	54.0
102.5°	64.4	65.4	67.9	69.0	68.6
105°	80.0	80.7	83.9	83.9	84.6
107.5°	98.5	98.8	100.3	101.3	101.0
110°	115.5	116.3	117.0	118.4	117.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	133.3	133.7	133.7	135.5	135.5
115°	151.1	152.2	151.5	151.8	151.5
117.5°	169.2	169.6	168.9	168.9	167.8
120°	185.9	188.1	186.3	185.9	185.2
122.5°	203.4	204.8	204.1	203.0	201.9
125°	221.1	222.2	221.5	220.1	218.7
127.5°	237.5	239.6	238.9	236.8	235.4
130°	253.8	256.7	255.6	254.2	251.7
132.5°	270.2	273.0	272.3	270.6	268.8
135°	286.9	289.0	288.7	287.3	286.6
137.5°	302.2	304.0	305.0	303.3	302.2
140°	318.2	320.0	320.3	320.0	317.5
142.5°	332.8	334.6	335.3	334.9	333.1
145°	348.1	348.8	349.8	349.5	348.1
147.5°	361.2	362.6	363.7	363.7	361.6
150°	375.1	375.8	376.5	376.5	374.4
152.5°	386.5	387.5	387.9	388.6	386.8
155°	398.5	398.5	398.9	400.3	397.8
157.5°	408.9	408.5	408.9	410.3	408.1
160°	418.5	417.7	417.7	419.5	418.1
162.5°	427.0	425.9	426.3	428.1	425.6
165°	434.1	433.0	433.0	435.2	432.7
167.5°	440.1	438.7	439.1	441.2	439.1
170°	445.1	443.7	443.7	446.2	443.7
172.5°	449.0	447.6	447.6	449.7	447.3
175°	451.5	450.1	450.1	452.2	449.7
177.5°	452.9	451.5	451.5	453.7	451.2
180°	452.6	452.6	452.6	452.6	452.6

(END OF REPORT)