

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: P1011783

Luminaire Tested: S123DIP-B560D365UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011783
REPORT IS A COMBINATION OF REPORTS P990071 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-F4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

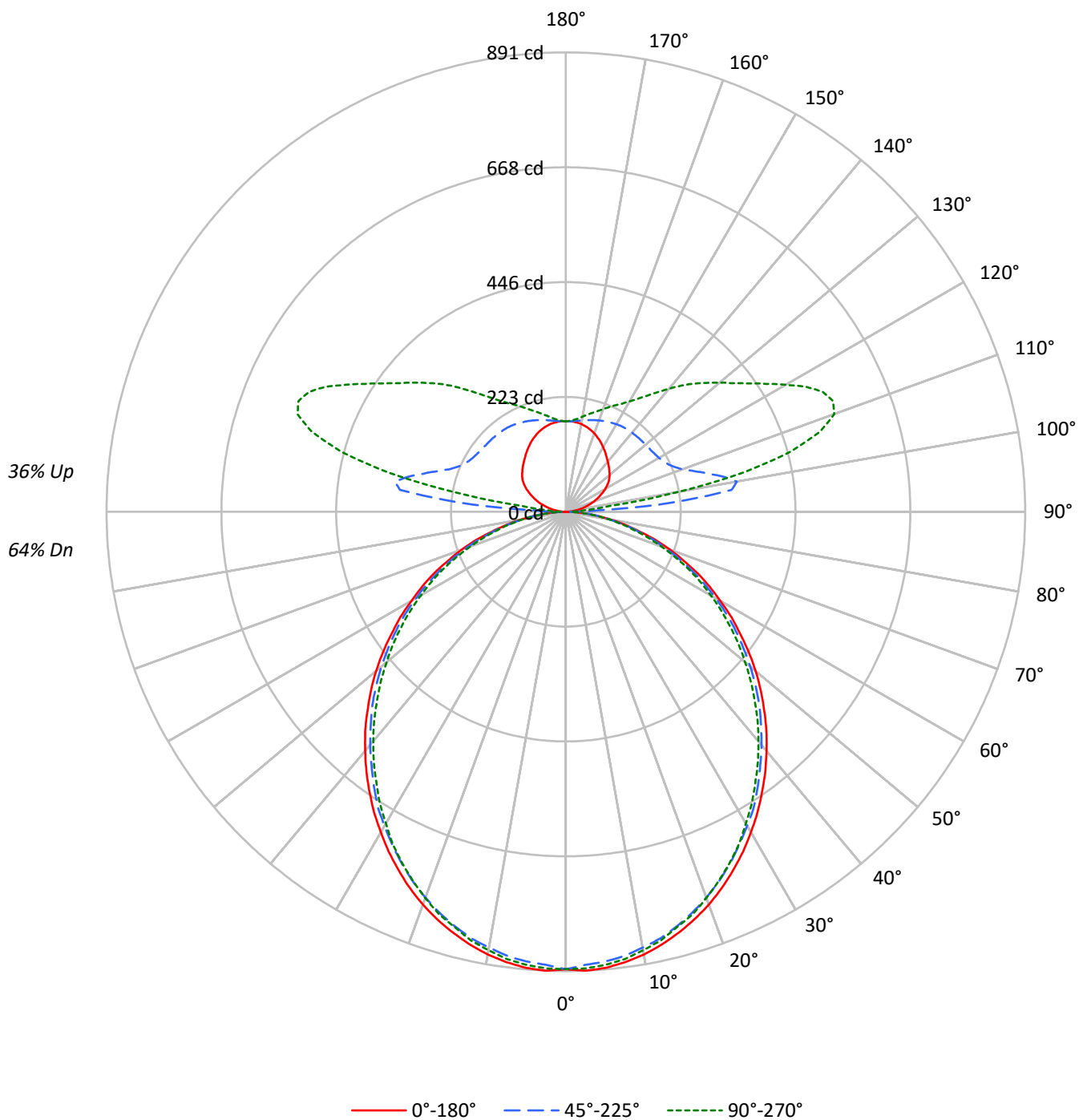
Lumens per Lamp: N/A
Luminaire Lumens: 3634.1 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69
1	101	96	92	89	94	91	87	84	80	77	75	70	68	66	61	59	58
2	92	84	78	72	86	79	74	69	70	65	62	61	58	55	53	51	49
3	84	74	66	60	78	70	63	57	62	56	52	54	50	47	47	44	41
4	77	65	57	51	72	62	54	49	55	49	44	48	44	40	42	39	36
5	70	58	50	44	66	55	48	42	49	43	38	43	38	35	38	34	31
6	65	52	44	38	61	50	42	37	44	38	33	39	34	30	34	30	27
7	60	47	39	34	56	45	37	32	40	34	30	36	31	27	31	27	24
8	56	43	35	30	52	41	34	29	37	31	26	33	28	24	29	25	22
9	52	39	32	27	49	37	30	26	34	28	24	30	25	22	27	23	20
10	49	36	29	24	46	34	28	23	31	25	21	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	6.5
20°-30°	348.8	9.6
30°-40°	407.4	11.2
40°-50°	409.5	11.3
50°-60°	359.8	9.9
60°-70°	267.9	7.4
70°-80°	152.5	4.2
80°-90°	44.3	1.2
90°-100°	99.8	2.7
100°-110°	278.9	7.7
110°-120°	272.0	7.5
120°-130°	216.6	6.0
130°-140°	171.0	4.7
140°-150°	127.6	3.5
150°-160°	89.0	2.4
160°-170°	52.3	1.4
170°-180°	17.0	0.5
0°-30°	668.6	18.4
0°-40°	1076.0	29.6
0°-60°	1845.2	50.8
0°-90°	2310.0	63.6
90°-120°	650.7	17.9
90°-150°	1165.8	32.1
90°-180°	1324.0	36.4
0°-180°	3634.1	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°	1	4	9	10	10	4
95°	12	39	211	62	41	13
105°	41	61	286	500	452	44
115°	73	91	219	479	550	72
125°	101	120	204	370	434	90
135°	119	142	201	304	352	92
145°	135	155	199	250	275	85
155°	154	166	192	219	228	71
165°	168	173	184	195	199	47
175°	175	175	177	179	179	17
180°	176	176	176	176	176	

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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°	0.7	4.2	8.9	10.0	10.3
92.5°	5.3	21.3	66.1	22.6	18.8
95°	12.1	39.3	210.8	61.5	41.2
97.5°	19.2	45.0	324.2	154.6	84.6
100°	26.3	49.6	336.7	323.6	222.9
102.5°	33.8	54.9	313.6	433.2	353.0
105°	41.2	61.0	285.8	499.8	452.2
107.5°	49.1	68.0	261.3	529.2	516.9
110°	57.6	75.4	241.0	530.0	553.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.4	83.0	227.5	510.0	561.3
115°	72.9	90.8	218.6	479.4	550.0
117.5°	80.3	98.3	212.6	446.7	525.1
120°	88.2	105.8	208.7	415.8	492.4
122.5°	94.9	112.9	206.2	391.5	461.8
125°	101.3	119.6	204.1	369.7	433.7
127.5°	106.3	126.0	203.0	352.0	409.5
130°	110.9	131.7	201.9	335.6	389.6
132.5°	114.5	136.8	201.6	320.3	370.1
135°	118.7	141.7	201.2	304.5	351.6
137.5°	122.6	145.6	200.5	289.6	332.0
140°	126.6	149.1	200.1	275.0	311.4
142.5°	130.8	152.3	199.4	261.7	292.2
145°	135.4	155.2	198.7	249.8	274.8
147.5°	140.1	158.2	197.7	240.5	259.9
150°	144.7	160.7	196.2	232.3	247.1
152.5°	149.3	163.4	194.5	225.2	236.4
155°	153.9	166.0	192.3	218.6	227.9
157.5°	157.5	168.4	190.6	212.2	219.7
160°	161.8	170.3	188.4	206.4	211.9
162.5°	165.0	171.7	186.3	200.9	204.8
165°	168.2	173.0	184.2	195.4	198.7
167.5°	170.6	174.0	182.0	190.6	192.7
170°	172.8	174.6	179.9	186.2	187.4
172.5°	174.2	175.1	178.1	182.6	182.4
175°	175.3	175.4	176.7	179.2	178.8
177.5°	176.0	175.6	175.6	177.0	176.3
180°	175.6	175.6	175.6	175.6	175.6

(END OF REPORT)