

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: P1011870

Luminaire Tested: S123DIP-B560D805UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011870
REPORT IS A COMBINATION OF REPORTS P990191 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D805UB30-4F0-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

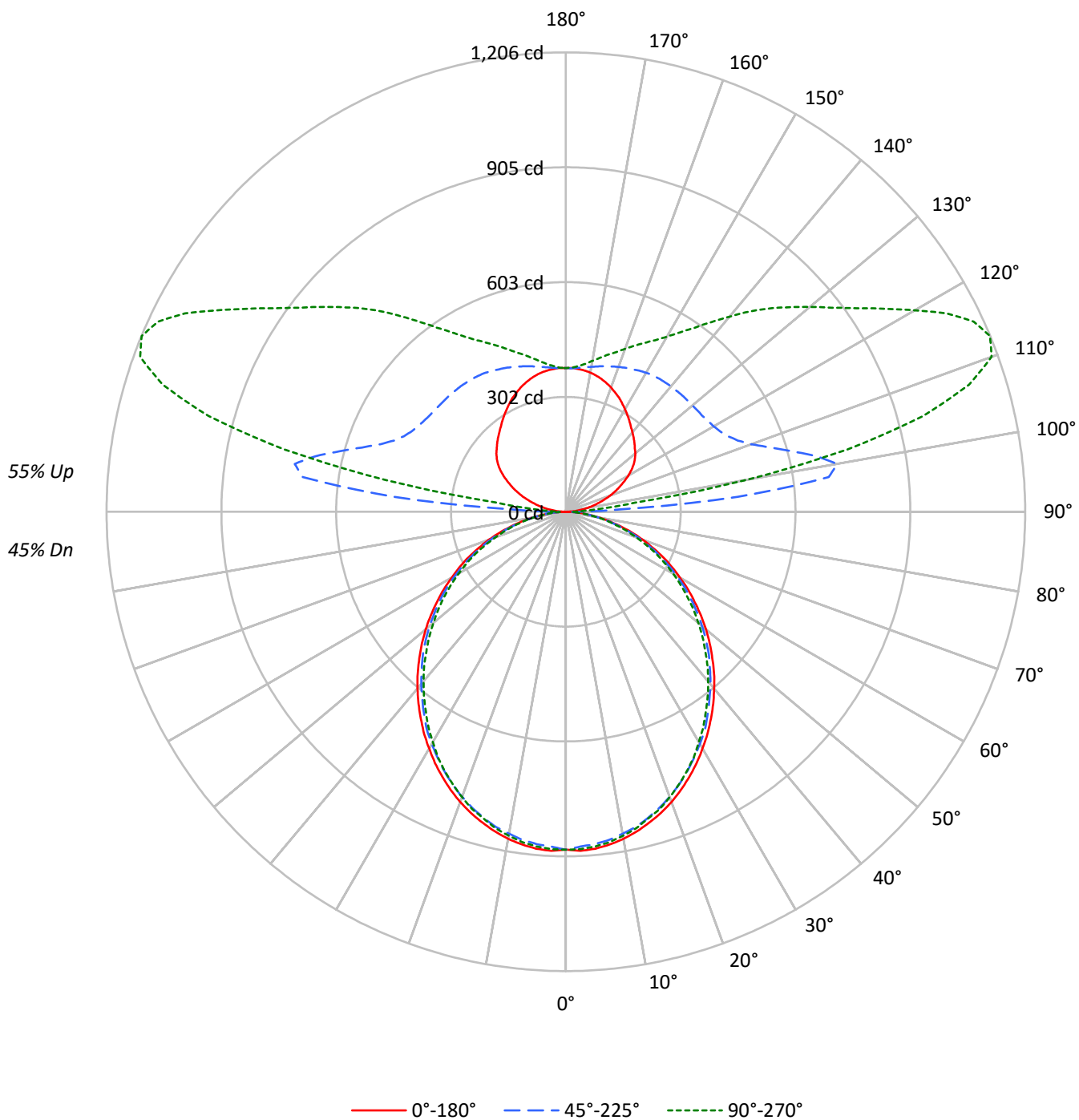
Lumens per Lamp: N/A
Luminaire Lumens: 5154.6 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1011870

CATALOG NUMBER: S123DIP-B560D805UB30-4F0-XX-W2A-F4

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	92	88	85	88	85	81	78	70	68	66	57	56	54	45	44	43
2	88	81	74	69	80	74	69	64	62	58	55	50	48	45	40	38	36
3	80	71	63	58	73	65	59	54	54	50	46	44	41	38	35	33	31
4	73	63	55	49	67	58	51	45	48	43	39	40	36	33	32	29	27
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	28	25	23
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	33	28	49	38	31	26	32	27	23	27	23	19	22	18	16
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13

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

TEST NUMBER: P1011870

CATALOG NUMBER: S123DIP-B560D805UB30-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	1.6
10°-20°	236.2	4.6
20°-30°	348.8	6.8
30°-40°	407.4	7.9
40°-50°	409.5	7.9
50°-60°	359.8	7.0
60°-70°	267.9	5.2
70°-80°	152.5	3.0
80°-90°	45.4	0.9
90°-100°	214.3	4.2
100°-110°	599.0	11.6
110°-120°	584.1	11.3
120°-130°	465.1	9.0
130°-140°	367.1	7.1
140°-150°	273.9	5.3
150°-160°	191.1	3.7
160°-170°	112.3	2.2
170°-180°	36.5	0.7
0°-30°	668.6	13.0
0°-40°	1076.0	20.9
0°-60°	1845.2	35.8
0°-90°	2311.1	44.8
90°-120°	1397.5	27.1
90°-150°	2503.6	48.6
90°-180°	2844.0	55.2
0°-180°	5154.6	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°	2	9	19	21	22	5
95°	26	84	453	132	89	28
105°	89	131	614	1073	971	94
115°	156	195	470	1030	1181	155
125°	218	257	438	794	931	193
135°	255	304	432	654	755	197
145°	291	333	427	536	590	182
155°	331	356	413	470	489	152
165°	361	371	396	420	427	102
175°	376	377	379	385	384	36
180°	377	377	377	377	377	

TEST NUMBER: P1011870

CATALOG NUMBER: S123DIP-B560D805UB30-4F0-XX-W2A-F4

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°	1.5	9.2	19.1	21.4	22.1
92.5°	11.5	45.8	142.0	48.5	40.5
95°	26.0	84.4	452.7	132.0	88.6
97.5°	41.2	96.6	696.3	332.1	181.7
100°	56.5	106.5	723.0	694.7	478.7
102.5°	72.5	118.0	673.4	930.3	758.1
105°	88.6	131.0	613.8	1073.4	971.1
107.5°	105.4	146.2	561.1	1136.4	1110.1
110°	123.7	161.8	517.6	1138.3	1189.5

TEST NUMBER: P1011870

CATALOG NUMBER: S123DIP-B560D805UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	140.5	178.3	488.6	1095.2	1205.5
115°	156.5	195.1	469.5	1029.5	1181.1
117.5°	172.5	211.1	456.5	959.2	1127.6
120°	189.3	227.2	448.1	892.8	1057.4
122.5°	203.8	242.4	442.8	840.6	991.7
125°	217.6	256.9	438.2	794.0	931.4
127.5°	228.3	270.6	435.9	755.8	879.5
130°	238.2	282.9	433.6	720.7	836.7
132.5°	245.8	294.0	432.9	687.8	794.7
135°	255.0	304.2	432.1	653.9	755.1
137.5°	263.4	312.6	430.6	621.8	713.1
140°	271.8	320.2	429.8	590.5	668.8
142.5°	280.9	327.2	428.3	561.9	627.6
145°	290.9	333.2	426.8	536.3	590.1
147.5°	300.8	339.8	424.5	516.5	558.1
150°	310.7	345.0	421.4	499.0	530.6
152.5°	320.6	350.8	417.6	483.6	507.7
155°	330.6	356.5	413.0	469.5	489.4
157.5°	338.2	361.5	409.2	455.8	471.8
160°	347.4	365.7	404.6	443.2	455.0
162.5°	354.2	368.8	400.0	431.4	439.7
165°	361.1	371.4	395.5	419.5	426.8
167.5°	366.5	373.7	390.9	409.2	413.8
170°	371.0	374.8	386.3	400.0	402.3
172.5°	374.1	376.0	382.5	392.0	391.6
175°	376.4	376.8	379.4	384.8	384.0
177.5°	377.9	377.1	377.1	380.2	378.7
180°	377.1	377.1	377.1	377.1	377.1

(END OF REPORT)