

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: P1011865

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011865
REPORT IS A COMBINATION OF REPORTS P990186 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-D
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

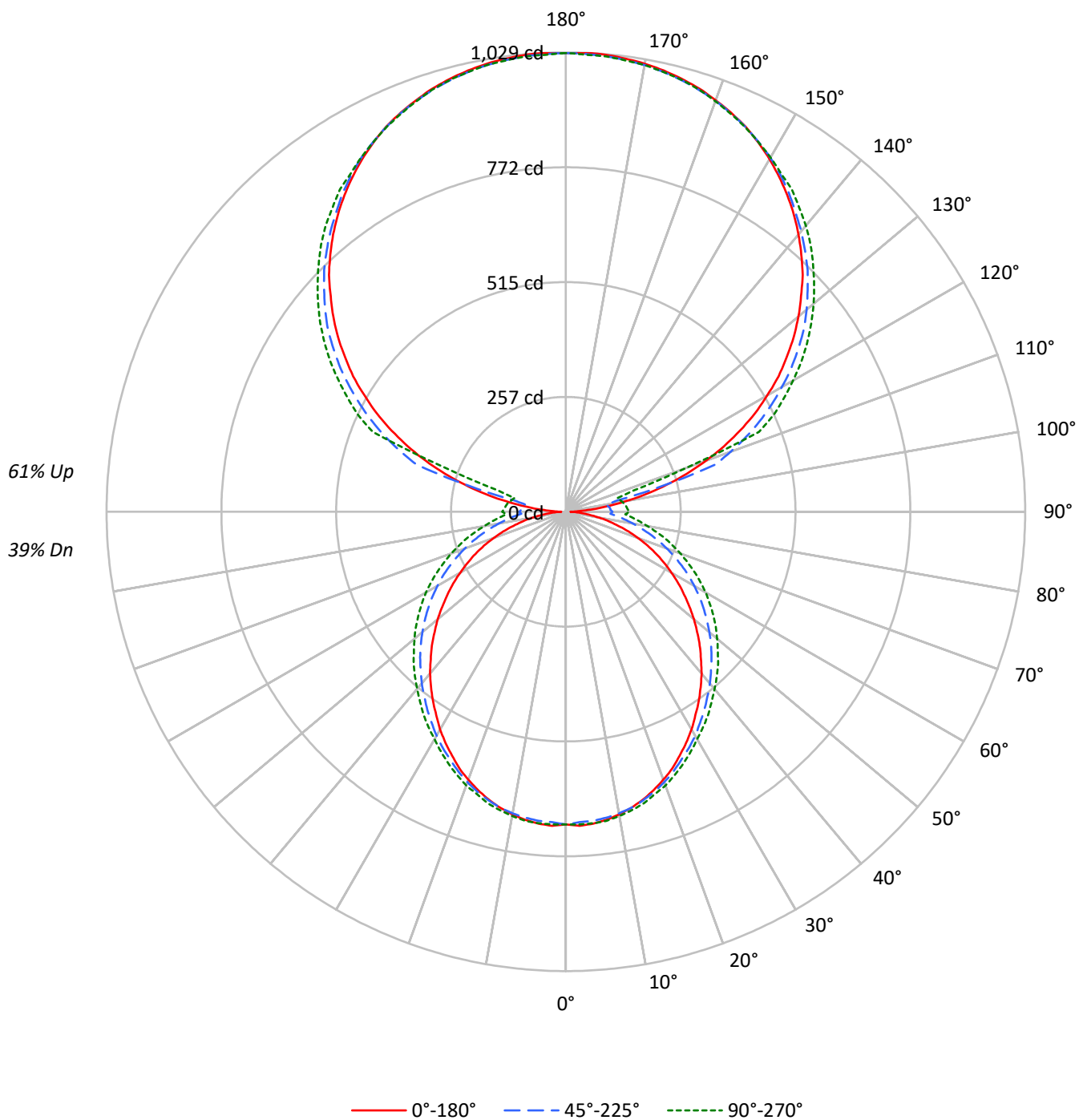
Lumens per Lamp: N/A
Luminaire Lumens: 5489.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	95	95	95	95	77	77	77	61	61	61	46	46	46
1	95	90	86	82	86	82	78	75	67	64	62	53	51	49	40	38	37
2	86	78	72	66	78	71	66	61	58	54	50	46	43	40	34	33	31
3	78	68	61	55	70	62	56	50	51	46	42	40	37	34	30	28	26
4	71	60	52	46	64	55	48	42	45	40	35	36	32	29	27	24	22
5	65	53	45	39	59	49	42	36	40	35	30	32	28	25	24	21	19
6	60	48	40	34	54	44	37	31	36	30	26	29	25	21	22	19	17
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15
8	51	39	31	26	46	36	29	24	29	24	20	24	20	17	18	15	13
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7539	7539	7539
5°	7560	7318	7312
10°	7489	7120	7065
15°	7390	6901	6804
20°	7249	6657	6523
25°	7077	6382	6232
30°	6899	6133	5940
35°	6700	5873	5702
40°	6511	5634	5451
45°	6300	5403	5243
50°	6091	5174	5018
55°	5862	4940	4812
60°	5637	4699	4600
65°	5405	4444	4351
70°	5056	4156	4096
75°	4614	3828	3832
80°	4099	3498	3531
85°	3592	3230	3314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	1.2
10°-20°	189.4	3.5
20°-30°	283.3	5.2
30°-40°	338.2	6.2
40°-50°	353.8	6.4
50°-60°	332.1	6.0
60°-70°	277.4	5.1
70°-80°	198.3	3.6
80°-90°	120.1	2.2
90°-100°	110.4	2.0
100°-110°	229.7	4.2
110°-120°	465.8	8.5
120°-130°	565.8	10.3
130°-140°	591.6	10.8
140°-150°	546.4	10.0
150°-160°	439.2	8.0
160°-170°	283.4	5.2
170°-180°	97.7	1.8
0°-30°	539.1	9.8
0°-40°	877.3	16.0
0°-60°	1563.2	28.5
0°-90°	2159.0	39.3
90°-120°	805.9	14.7
90°-150°	2509.7	45.7
90°-180°	3330.0	60.7
0°-180°	5489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	701	700	695	701	700	67
15°	668	670	669	677	676	188
25°	603	610	613	623	623	278
35°	519	531	541	552	556	324
45°	424	442	462	476	482	327
55°	324	349	376	397	403	290
65°	224	253	287	310	317	221
75°	121	157	195	220	230	130
85°	37	76	116	142	150	38
90°	11	56	104	134	143	10
95°	55	53	99	128	136	62
105°	234	260	224	111	119	247
115°	431	444	479	505	514	425
125°	604	610	635	653	660	540
135°	750	754	766	782	783	578
145°	865	870	871	879	882	541
155°	952	951	951	955	951	439
165°	1004	1002	1001	1007	1002	284
175°	1028	1024	1025	1030	1024	98
180°	1028	1028	1028	1028	1028	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700.4	700.4	700.4	700.4	700.4
2.5°	704.2	702.0	695.9	702.0	701.2
5°	701.2	699.7	695.1	701.2	700.4
7.5°	695.9	695.9	691.3	698.9	698.1
10°	688.2	689.7	685.9	693.6	692.0
12.5°	679.1	681.4	679.1	685.9	684.4
15°	667.6	669.9	669.1	676.8	676.0
17.5°	653.9	658.5	657.7	664.6	663.0
20°	638.6	643.2	644.7	651.6	652.4
22.5°	622.6	627.2	629.5	638.6	637.9
25°	602.8	610.4	612.7	622.6	622.6
27.5°	583.7	592.1	596.7	605.1	605.8
30°	563.1	573.0	579.1	588.3	588.3
32.5°	540.2	551.6	560.0	570.0	572.2
35°	518.8	531.0	541.0	552.4	555.5
37.5°	495.9	509.7	521.1	534.1	536.4
40°	473.1	486.8	502.1	515.0	518.1
42.5°	447.9	465.4	481.5	495.9	500.5
45°	424.2	442.5	461.6	476.1	482.2
47.5°	399.0	419.6	441.0	457.0	461.6
50°	374.6	396.0	419.6	437.2	442.5
52.5°	348.7	371.6	398.3	416.6	423.5
55°	323.5	348.7	376.2	396.8	402.9
57.5°	299.1	325.0	354.8	375.4	382.3
60°	273.2	300.6	331.9	353.3	361.7
62.5°	248.7	277.0	310.5	331.9	339.5
65°	223.6	253.3	286.9	309.8	317.4
67.5°	198.4	229.7	263.2	288.4	294.5
70°	171.7	204.5	241.1	265.5	273.2
72.5°	147.3	180.1	218.2	243.4	251.0
75°	121.3	157.2	195.3	220.5	229.7
77.5°	99.2	135.1	173.2	199.9	206.8
80°	75.5	112.9	152.6	178.5	186.2
82.5°	54.9	93.1	133.5	159.5	167.1
85°	37.4	75.5	116.0	141.9	149.5
87.5°	22.9	61.0	100.0	125.9	133.5
90°	10.7	55.7	104.5	133.6	142.7
92.5°	26.8	55.0	100.0	130.5	138.2
95°	55.0	53.4	99.2	128.2	135.8
97.5°	92.3	98.5	95.4	124.3	132.8
100°	135.9	175.6	91.6	119.8	128.2
102.5°	185.5	216.8	118.3	114.5	123.6
105°	233.6	260.3	224.4	110.7	119.1
107.5°	284.0	306.9	349.6	252.6	159.5
110°	334.4	354.2	393.1	387.8	284.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	383.3	399.3	436.7	462.6	468.0
115°	430.6	444.4	478.6	504.7	513.8
117.5°	477.9	489.4	519.2	543.6	550.5
120°	520.8	531.4	558.8	582.5	587.8
122.5°	565.0	571.9	598.5	619.2	625.3
125°	603.9	610.0	635.2	652.7	659.7
127.5°	643.6	648.9	671.9	689.5	693.2
130°	680.3	685.6	704.0	721.5	724.6
132.5°	714.6	720.7	734.5	751.3	754.3
135°	750.5	754.4	765.8	781.8	783.3
137.5°	781.0	786.4	793.3	809.3	811.6
140°	810.9	815.5	820.0	834.5	836.8
142.5°	839.1	842.9	845.2	857.4	858.9
145°	865.1	869.6	871.2	878.8	881.9
147.5°	889.5	893.3	894.8	898.7	897.8
150°	912.4	914.7	916.2	917.7	916.9
152.5°	933.0	933.8	934.5	937.6	933.8
155°	952.1	950.6	951.3	955.1	950.6
157.5°	967.4	967.4	966.6	971.2	965.1
160°	981.1	980.3	979.6	984.2	978.8
162.5°	994.1	991.8	991.0	996.4	991.8
165°	1004.0	1001.7	1001.0	1007.1	1001.7
167.5°	1012.4	1009.3	1009.3	1015.5	1009.3
170°	1019.3	1016.2	1016.2	1022.3	1016.2
172.5°	1023.9	1020.0	1020.8	1026.9	1020.0
175°	1027.7	1023.9	1024.6	1030.0	1023.9
177.5°	1029.2	1025.4	1026.1	1032.3	1024.6
180°	1027.7	1027.7	1027.7	1027.7	1027.7

(END OF REPORT)