

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: P1010678

Luminaire Tested: S123DIP-B560D585UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010678
REPORT IS A COMBINATION OF REPORTS P990122 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D585UB2750-4F0-XX-W2A-F_5000K
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

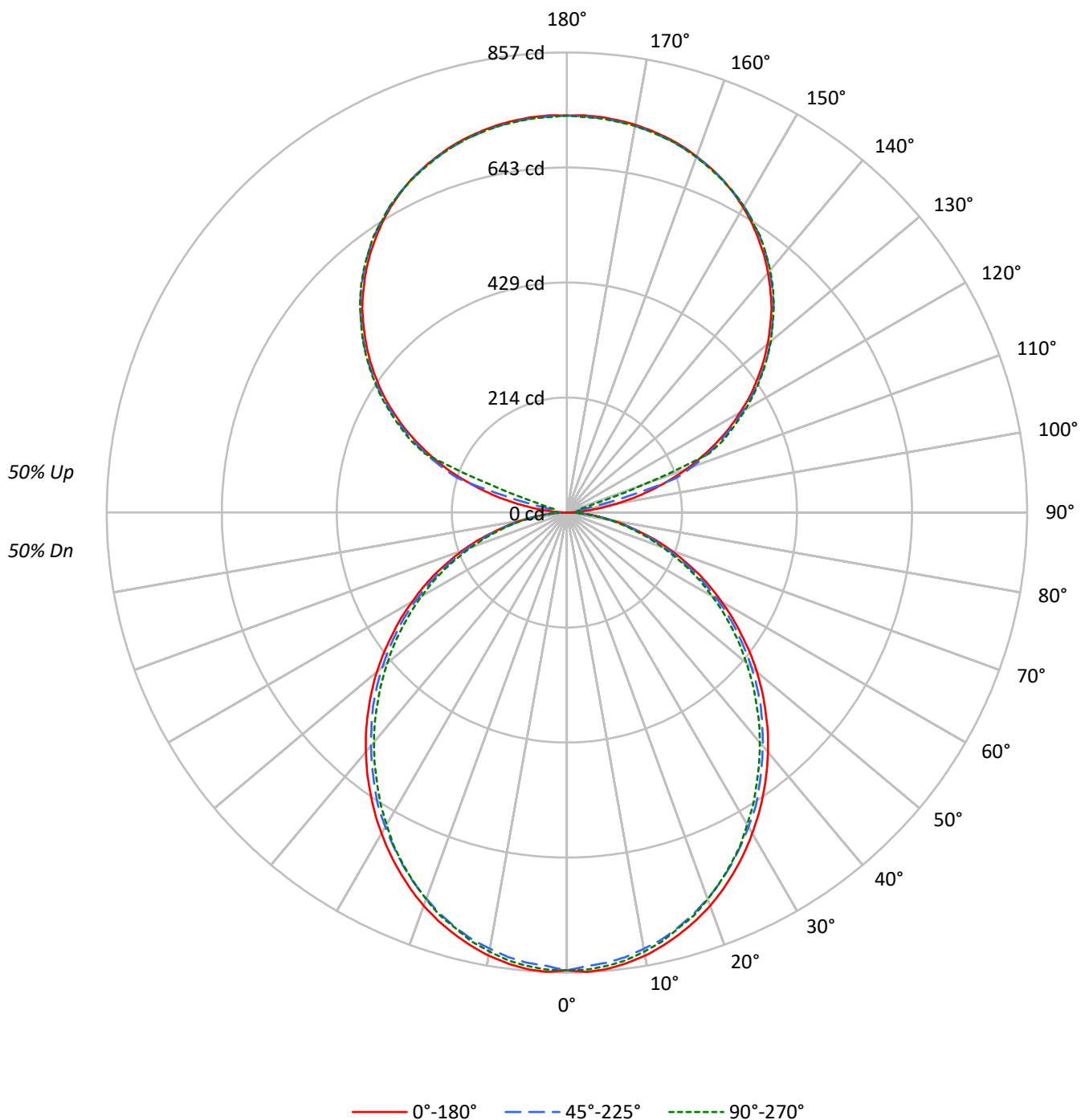
Lumens per Lamp: N/A
Luminaire Lumens: 4476.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	56
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	49	48	47	47	47	47
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	40	40	40
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	34	34	34
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	29	29	29
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	25	25	25
6	63	51	42	37	58	47	40	34	40	35	30	34	30	26	28	25	22	22	22	22
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	20	20	20
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	18	18	18
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	22	18	16	16	16	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	14	14	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9182	9182	9182
5°	9204	8865	8852
10°	9122	8564	8477
15°	8996	8253	8069
20°	8851	7906	7664
25°	8663	7541	7232
30°	8457	7162	6776
35°	8241	6776	6324
40°	8015	6370	5880
45°	7767	5975	5415
50°	7514	5535	4949
55°	7190	5075	4476
60°	6857	4569	3974
65°	6541	4021	3449
70°	6090	3413	2837
75°	5440	2703	2202
80°	4696	1900	1557
85°	3660	1022	780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7767 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	1.8
10°-20°	227.1	5.1
20°-30°	335.4	7.5
30°-40°	391.7	8.8
40°-50°	393.8	8.8
50°-60°	345.9	7.7
60°-70°	257.6	5.8
70°-80°	146.6	3.3
80°-90°	43.1	1.0
90°-100°	26.1	0.6
100°-110°	126.1	2.8
110°-120°	309.0	6.9
120°-130°	392.2	8.8
130°-140°	419.0	9.4
140°-150°	391.8	8.8
150°-160°	316.0	7.1
160°-170°	204.0	4.6
170°-180°	70.3	1.6
0°-30°	642.8	14.4
0°-40°	1034.5	23.1
0°-60°	1774.1	39.6
0°-90°	2221.5	49.6
90°-120°	461.1	10.3
90°-150°	1664.2	37.2
90°-180°	2255.0	50.4
0°-180°	4476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	853	853	853	853	853	
5°	854	850	842	849	848	81
15°	813	810	800	806	802	229
25°	738	734	724	725	722	340
35°	638	634	624	620	616	399
45°	523	520	510	502	498	404
55°	397	396	386	378	375	355
65°	271	267	260	254	252	267
75°	143	140	138	134	132	153
85°	38	37	37	35	35	41
90°	0	6	13	15	16	4
95°	34	11	17	21	21	40
105°	164	170	120	23	24	174
115°	307	310	315	321	323	303
125°	433	437	440	441	442	387
135°	539	542	544	546	544	415
145°	622	626	627	628	628	389
155°	685	684	685	687	684	316
165°	722	721	720	725	721	204
175°	740	737	737	741	737	70
180°	740	740	740	740	740	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	853.0	853.0	853.0	853.0	853.0
2.5°	856.7	853.7	845.7	853.0	852.3
5°	853.7	850.1	842.0	849.3	847.9
7.5°	847.1	843.5	835.4	842.0	841.3
10°	838.3	834.7	825.1	831.7	830.3
12.5°	826.6	823.7	814.9	819.3	818.5
15°	812.7	809.7	800.2	806.1	801.7
17.5°	797.3	793.6	784.1	788.5	787.0
20°	779.7	775.3	765.7	768.7	766.5
22.5°	759.9	755.5	745.9	748.1	745.2
25°	737.9	733.5	723.9	724.7	722.5
27.5°	715.1	710.7	700.4	701.2	699.0
30°	690.2	686.5	676.2	676.2	671.1
32.5°	665.2	660.1	652.8	647.6	645.4
35°	638.1	633.7	624.2	619.8	616.1
37.5°	611.0	605.1	595.6	590.4	588.2
40°	582.4	578.0	567.7	561.8	558.9
42.5°	553.8	548.6	538.4	532.5	529.6
45°	523.0	520.0	510.5	501.7	498.0
47.5°	492.9	488.5	479.7	470.9	467.9
50°	462.1	458.4	448.9	440.8	436.4
52.5°	429.8	427.6	417.3	410.7	406.3
55°	396.8	396.1	386.5	378.5	374.8
57.5°	366.0	363.1	355.7	348.4	344.0
60°	332.3	331.5	322.7	316.1	312.5
62.5°	302.2	300.0	291.2	284.6	282.4
65°	270.6	267.0	259.6	253.8	251.6
67.5°	236.9	234.0	228.1	223.0	220.0
70°	206.8	202.4	198.0	192.9	189.2
72.5°	175.3	172.4	167.2	162.8	161.4
75°	143.0	140.1	137.9	134.2	132.0
77.5°	114.4	113.0	110.0	107.1	107.1
80°	86.5	84.3	82.9	82.1	82.1
82.5°	59.4	59.4	59.4	57.9	57.2
85°	38.1	36.7	36.7	35.2	35.2
87.5°	19.1	16.9	16.1	15.4	15.4
90°	0.5	6.0	13.2	15.4	16.5
92.5°	12.6	9.3	14.3	18.1	18.7
95°	33.5	11.0	17.0	20.9	20.9
97.5°	61.0	45.6	17.6	22.0	22.5
100°	92.9	103.8	18.1	22.5	23.1
102.5°	129.1	136.3	40.7	22.5	23.6
105°	163.7	169.8	120.3	23.1	24.2
107.5°	200.5	205.5	213.7	129.1	57.1
110°	237.4	241.7	247.8	229.7	151.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	272.5	276.4	282.4	287.4	286.3
115°	307.1	310.4	315.4	320.9	323.1
117.5°	341.2	345.0	347.8	352.2	352.7
120°	372.5	377.5	379.1	383.5	383.5
122.5°	404.4	408.2	410.4	413.2	413.7
125°	432.9	437.3	439.5	440.6	441.7
127.5°	461.5	465.9	468.7	470.3	469.2
130°	487.9	492.3	494.5	496.7	495.6
132.5°	513.2	517.6	519.2	521.4	519.8
135°	539.0	542.3	544.5	546.1	544.5
137.5°	561.0	565.4	566.5	569.2	568.1
140°	582.9	586.2	587.9	590.1	589.0
142.5°	603.3	606.6	608.2	609.9	608.2
145°	622.0	625.8	626.9	628.0	628.0
147.5°	640.1	642.8	643.9	645.0	642.3
150°	656.6	658.2	659.3	660.4	658.8
152.5°	671.4	672.0	672.5	674.7	672.0
155°	685.1	684.0	684.6	687.3	684.0
157.5°	696.1	696.1	695.6	698.9	694.5
160°	706.0	705.5	704.9	708.2	704.4
162.5°	715.4	713.7	713.2	717.0	713.7
165°	722.5	720.9	720.3	724.7	720.9
167.5°	728.5	726.3	726.3	730.7	726.3
170°	733.5	731.3	731.3	735.7	731.3
172.5°	736.8	734.0	734.6	739.0	734.0
175°	739.5	736.8	737.3	741.2	736.8
177.5°	740.6	737.9	738.4	742.8	737.3
180°	739.5	739.5	739.5	739.5	739.5

(END OF REPORT)