

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: P1011720

Luminaire Tested: S123DIP-B560D1025UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011720
REPORT IS A COMBINATION OF REPORTS P989978 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB50-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

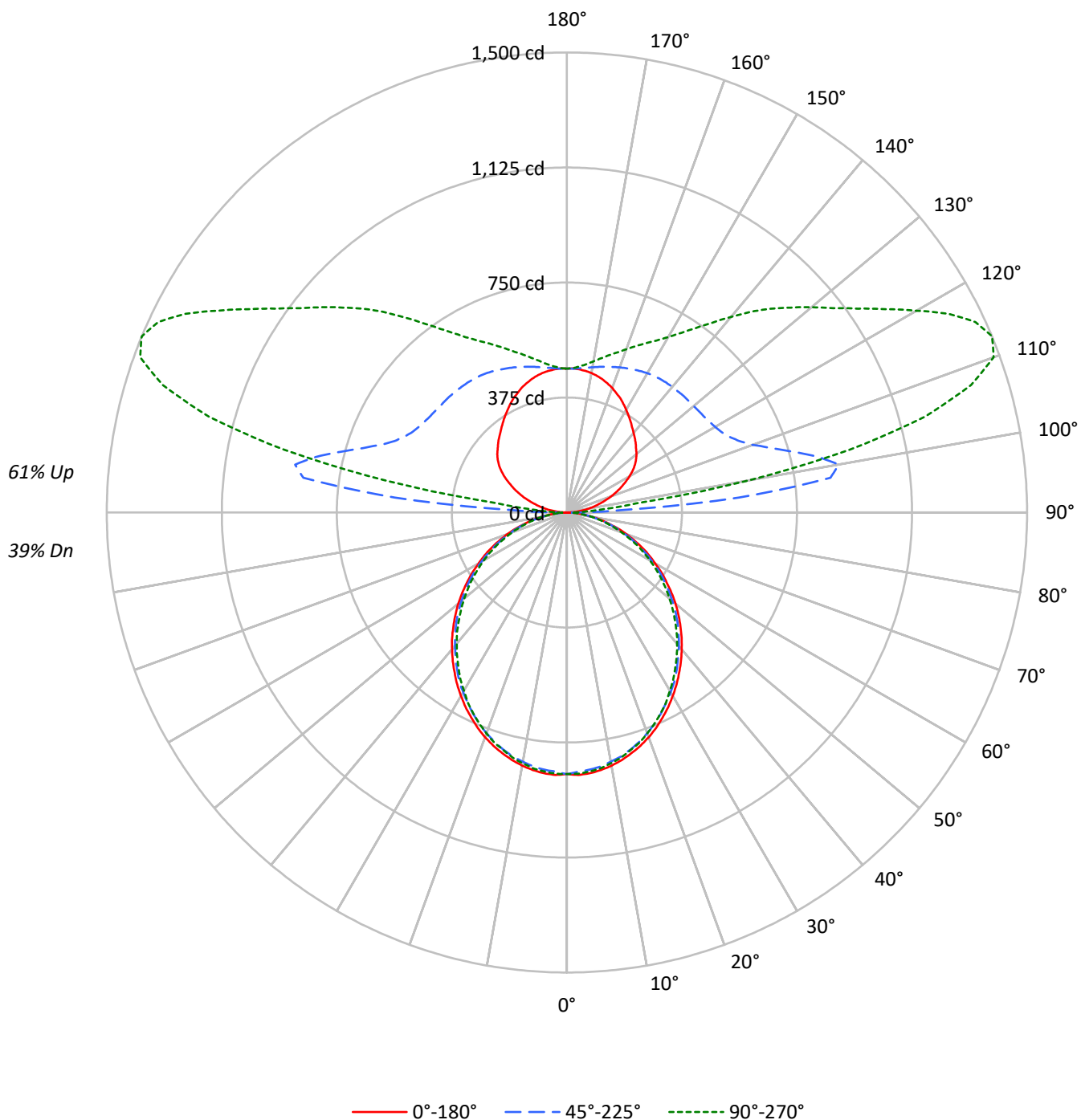
Lumens per Lamp: N/A
Luminaire Lumens: 5761.2 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39		
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32		
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27		
3	79	70	62	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23		
4	72	62	54	48	65	56	49	44	46	41	37	37	33	30	28	26	24	20		
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17		
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15		
7	56	44	36	31	51	41	34	29	34	28	24	27	23	20	21	18	16	13		
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	16	14	12		
9	48	36	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11		
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10		

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	1.4
10°-20°	227.1	3.9
20°-30°	335.4	5.8
30°-40°	391.7	6.8
40°-50°	393.8	6.8
50°-60°	345.9	6.0
60°-70°	257.6	4.5
70°-80°	146.6	2.5
80°-90°	44.3	0.8
90°-100°	266.7	4.6
100°-110°	745.5	12.9
110°-120°	726.9	12.6
120°-130°	578.8	10.0
130°-140°	456.9	7.9
140°-150°	340.9	5.9
150°-160°	237.8	4.1
160°-170°	139.7	2.4
170°-180°	45.4	0.8
0°-30°	642.8	11.2
0°-40°	1034.5	18.0
0°-60°	1774.1	30.8
0°-90°	2222.6	38.6
90°-120°	1739.1	30.2
90°-150°	3115.7	54.1
90°-180°	3539.0	61.4
0°-180°	5761.2	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°	2	11	24	27	28	5
95°	32	105	563	164	110	34
105°	110	163	764	1336	1208	117
115°	195	243	584	1281	1470	193
125°	271	320	545	988	1159	241
135°	317	379	538	814	940	245
145°	362	415	531	667	734	227
155°	411	444	514	584	609	189
165°	449	462	492	522	531	127
175°	468	469	472	479	478	44
180°	469	469	469	469	469	

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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°	1.9	11.4	23.8	26.6	27.6
92.5°	14.3	57.0	176.7	60.4	50.4
95°	32.3	105.0	563.4	164.4	110.2
97.5°	51.3	120.2	866.5	413.2	226.1
100°	70.3	132.6	899.7	864.6	595.7
102.5°	90.3	146.8	838.0	1157.6	943.4
105°	110.2	163.0	763.9	1335.8	1208.5
107.5°	131.1	182.0	698.3	1414.2	1381.4
110°	153.9	201.4	644.2	1416.6	1480.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.8	221.8	608.0	1362.9	1500.2
115°	194.8	242.8	584.3	1281.2	1469.8
117.5°	214.7	262.7	568.1	1193.8	1403.3
120°	235.6	282.6	557.7	1111.1	1315.9
122.5°	253.7	301.6	551.0	1046.0	1234.1
125°	270.8	319.7	545.3	988.1	1159.1
127.5°	284.1	336.8	542.5	940.6	1094.5
130°	296.4	352.0	539.6	896.9	1041.3
132.5°	305.9	365.8	538.7	856.0	989.0
135°	317.3	378.6	537.7	813.8	939.6
137.5°	327.8	389.0	535.8	773.8	887.4
140°	338.2	398.5	534.9	734.9	832.3
142.5°	349.6	407.1	533.0	699.3	781.0
145°	362.0	414.7	531.1	667.4	734.4
147.5°	374.3	422.8	528.2	642.8	694.5
150°	386.7	429.4	524.4	620.8	660.3
152.5°	399.0	436.6	519.7	601.8	631.8
155°	411.4	443.6	514.0	584.3	609.0
157.5°	420.9	449.8	509.2	567.2	587.1
160°	432.3	455.0	503.5	551.5	566.2
162.5°	440.8	458.9	497.8	536.8	547.2
165°	449.4	462.2	492.1	522.0	531.1
167.5°	456.0	465.0	486.4	509.2	514.9
170°	461.7	466.4	480.7	497.8	500.7
172.5°	465.5	467.9	476.0	487.8	487.4
175°	468.4	468.8	472.2	478.8	477.9
177.5°	470.3	469.3	469.3	473.1	471.2
180°	469.3	469.3	469.3	469.3	469.3

(END OF REPORT)