

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: P1011689

Luminaire Tested: S123DIP-B560D1025UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011689
REPORT IS A COMBINATION OF REPORTS P989947 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB30-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

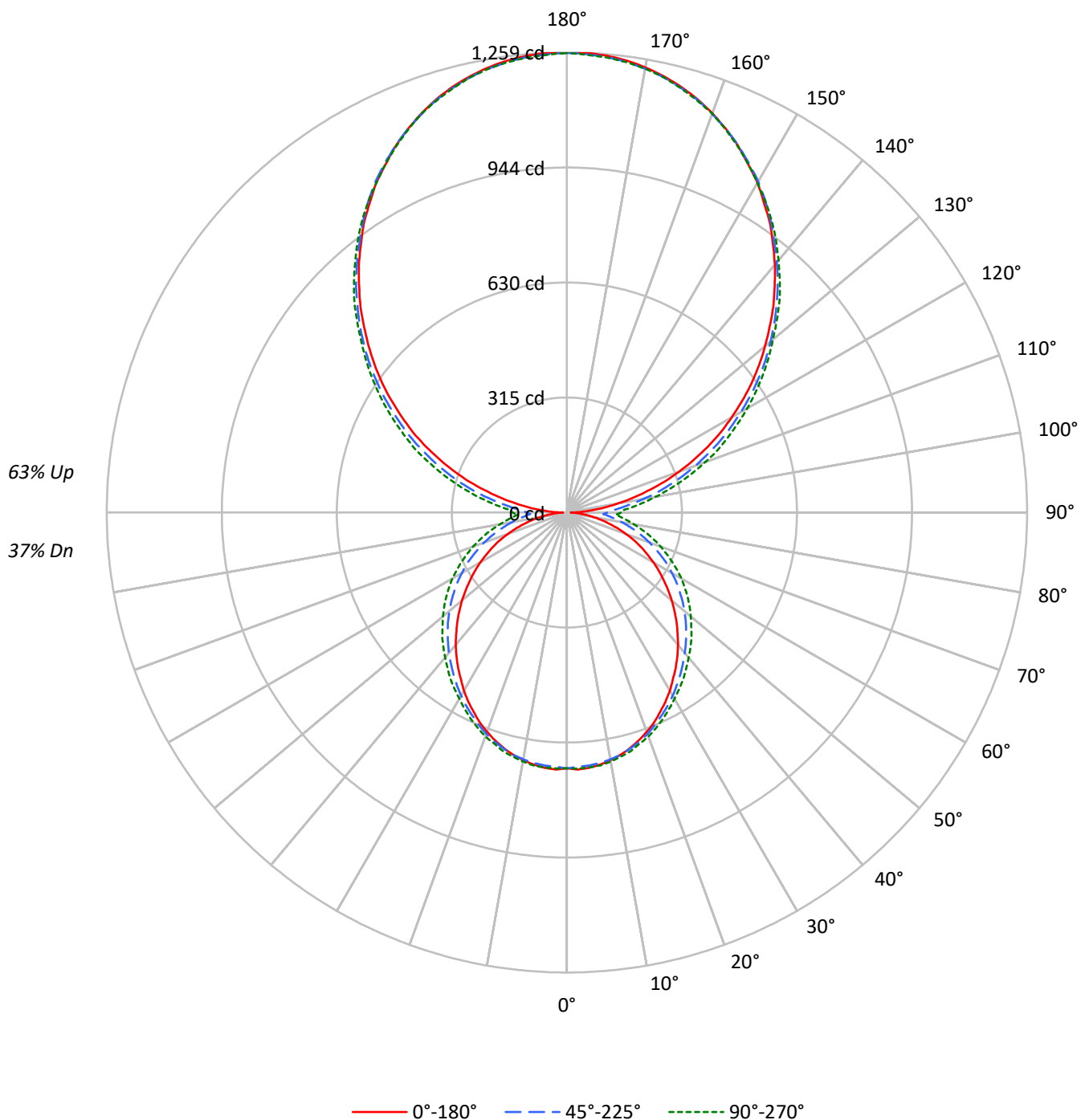
Lumens per Lamp: N/A
Luminaire Lumens: 5842.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	94	89	85	82	85	81	78	74	65	63	61	51	49	48	38	37	36
2	85	78	71	66	77	70	65	60	57	53	50	44	42	39	33	31	29
3	78	68	61	55	70	62	55	50	50	45	41	39	36	33	29	27	25
4	71	60	52	46	64	54	48	42	44	39	35	35	31	28	26	23	21
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18
6	60	48	39	34	54	43	36	31	35	30	26	28	24	21	21	18	16
7	55	43	35	29	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	15	13
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	15	12	10

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	1.1
10°-20°	189.4	3.2
20°-30°	283.3	4.8
30°-40°	338.2	5.8
40°-50°	353.8	6.1
50°-60°	332.1	5.7
60°-70°	277.4	4.7
70°-80°	198.3	3.4
80°-90°	120.7	2.1
90°-100°	155.1	2.7
100°-110°	299.6	5.1
110°-120°	453.6	7.8
120°-130°	569.7	9.8
130°-140°	626.3	10.7
140°-150°	608.5	10.4
150°-160°	510.7	8.7
160°-170°	340.0	5.8
170°-180°	119.0	2.0
0°-30°	539.1	9.2
0°-40°	877.3	15.0
0°-60°	1563.2	26.8
0°-90°	2159.6	37.0
90°-120°	908.3	15.5
90°-150°	2712.8	46.4
90°-180°	3682.0	63.0
0°-180°	5842.0	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	58	110	140	149	11
95°	67	103	149	176	184	71
105°	228	249	290	312	321	244
115°	424	436	461	481	486	420
125°	617	620	640	652	654	550
135°	799	804	812	821	823	616
145°	968	969	972	977	977	605
155°	1108	1108	1109	1113	1106	510
165°	1206	1204	1204	1210	1202	340
175°	1255	1251	1251	1257	1250	119
180°	1258	1258	1258	1258	1258	

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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°	10.9	58.2	109.9	139.9	149.4
92.5°	38.8	77.6	121.6	149.8	154.7
95°	66.7	103.3	148.6	176.3	183.9
97.5°	103.4	135.9	177.7	205.5	212.2
100°	141.3	171.6	211.7	236.7	246.3
102.5°	184.9	209.3	250.5	274.9	281.5
105°	228.4	248.7	290.4	311.8	320.7
107.5°	279.0	296.1	331.2	354.8	360.7
110°	325.7	341.4	373.9	397.7	401.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.1	386.8	415.8	439.8	446.7
115°	423.8	435.9	461.3	480.7	485.8
117.5°	474.1	481.2	505.3	523.6	526.7
120°	519.9	529.6	549.8	566.4	569.7
122.5°	568.3	573.8	595.4	609.2	611.7
125°	616.9	619.9	640.0	652.0	653.5
127.5°	662.4	667.5	684.6	694.0	695.3
130°	707.8	714.9	727.3	737.8	735.5
132.5°	752.5	760.4	769.9	778.7	779.0
135°	798.9	804.1	811.6	821.3	823.1
137.5°	841.4	845.6	853.9	861.2	862.0
140°	885.2	890.1	893.4	903.8	900.7
142.5°	925.7	929.8	931.8	940.7	939.6
145°	968.2	969.3	972.3	977.4	976.6
147.5°	1003.9	1007.9	1010.8	1013.1	1010.2
150°	1042.5	1044.4	1046.4	1046.4	1042.0
152.5°	1074.1	1077.0	1078.0	1080.0	1075.1
155°	1107.7	1107.7	1108.7	1112.6	1105.7
157.5°	1136.3	1135.3	1136.3	1140.3	1134.4
160°	1163.0	1161.0	1161.0	1166.0	1162.0
162.5°	1186.7	1183.8	1184.8	1189.7	1182.8
165°	1206.5	1203.5	1203.5	1209.5	1202.5
167.5°	1223.3	1219.3	1220.3	1226.3	1220.3
170°	1237.1	1233.2	1233.2	1240.1	1233.2
172.5°	1248.0	1244.0	1244.0	1250.0	1243.1
175°	1254.9	1251.0	1251.0	1256.9	1250.0
177.5°	1258.9	1254.9	1254.9	1260.8	1253.9
180°	1257.9	1257.9	1257.9	1257.9	1257.9

(END OF REPORT)