

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: P1011711

Luminaire Tested: S123DIP-B560D1025UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011711
REPORT IS A COMBINATION OF REPORTS P989969 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB40-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

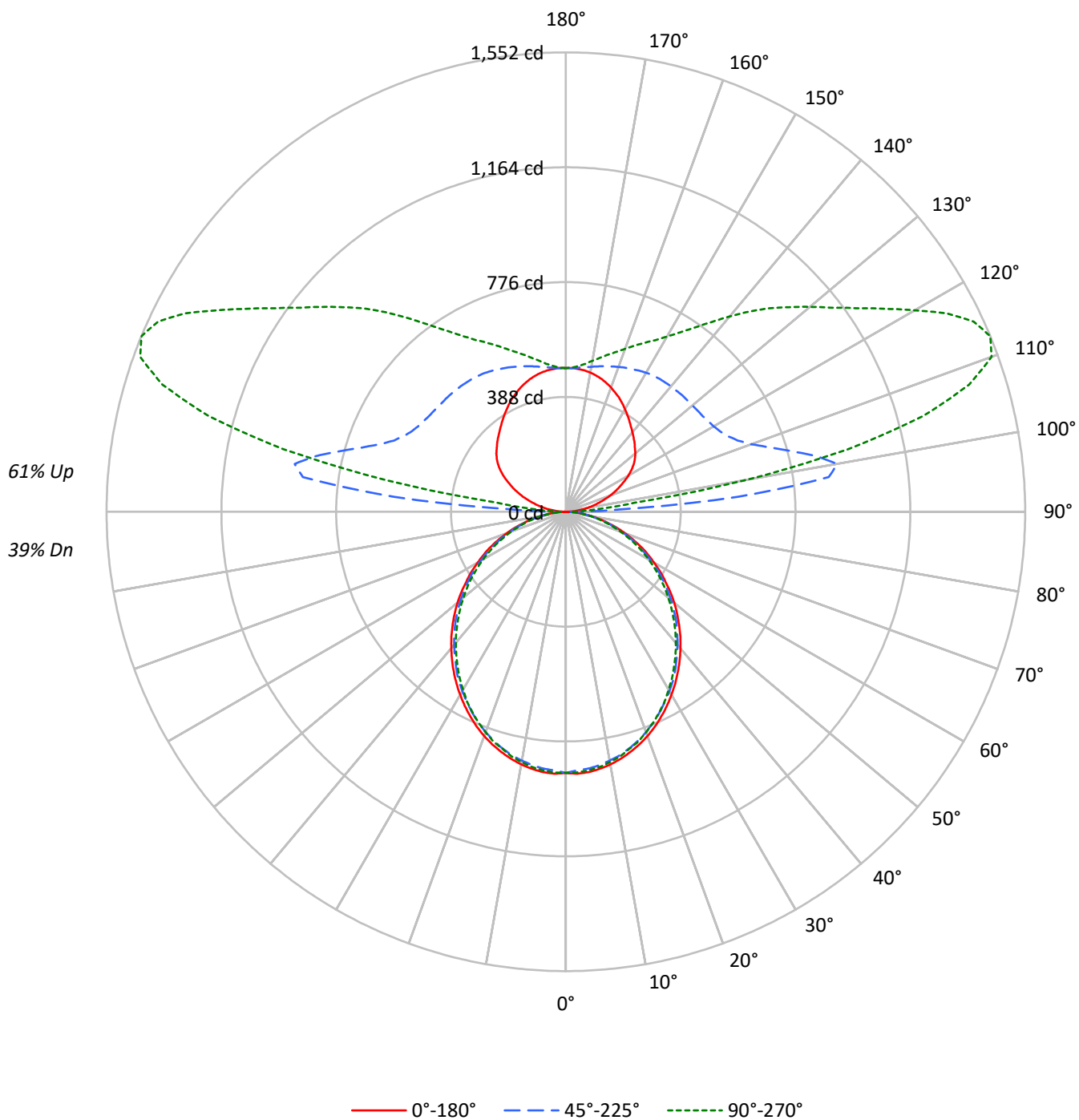
Lumens per Lamp: N/A
Luminaire Lumens: 5958.5 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9496	9496	9496
5°	9520	9168	9155
10°	9435	8858	8767
15°	9304	8535	8345
20°	9154	8177	7926
25°	8959	7799	7479
30°	8746	7408	7008
35°	8523	7008	6541
40°	8289	6588	6081
45°	8033	6180	5601
50°	7771	5723	5118
55°	7436	5250	4629
60°	7090	4726	4109
65°	6766	4159	3567
70°	6299	3530	2934
75°	5626	2795	2277
80°	4859	1964	1612
85°	3785	1055	807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8033 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.4
10°-20°	234.8	3.9
20°-30°	346.8	5.8
30°-40°	405.1	6.8
40°-50°	407.2	6.8
50°-60°	357.7	6.0
60°-70°	266.4	4.5
70°-80°	151.6	2.5
80°-90°	45.8	0.8
90°-100°	275.8	4.6
100°-110°	771.0	12.9
110°-120°	751.8	12.6
120°-130°	598.6	10.0
130°-140°	472.5	7.9
140°-150°	352.5	5.9
150°-160°	246.0	4.1
160°-170°	144.5	2.4
170°-180°	47.0	0.8
0°-30°	664.8	11.2
0°-40°	1069.9	18.0
0°-60°	1834.9	30.8
0°-90°	2298.7	38.6
90°-120°	1798.6	30.2
90°-150°	3222.4	54.1
90°-180°	3660.0	61.4
0°-180°	5958.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	883	879	871	878	877	84
15°	840	838	828	834	829	237
25°	763	759	749	750	747	352
35°	660	655	646	641	637	413
45°	541	538	528	519	515	418
55°	410	410	400	391	388	368
65°	280	276	268	262	260	276
75°	148	145	143	139	136	158
85°	39	38	38	36	36	42
90°	2	12	25	28	28	5
95°	33	109	583	170	114	35
105°	114	168	790	1382	1250	121
115°	201	251	604	1325	1520	199
125°	280	331	564	1022	1199	249
135°	328	392	556	842	972	254
145°	374	429	549	690	760	235
155°	426	459	532	604	630	196
165°	465	478	509	540	549	131
175°	484	485	488	495	494	46
180°	485	485	485	485	485	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.2	882.2	882.2	882.2	882.2
2.5°	886.0	883.0	874.6	882.2	881.5
5°	883.0	879.2	870.8	878.4	876.9
7.5°	876.1	872.3	864.0	870.8	870.1
10°	867.0	863.2	853.4	860.2	858.7
12.5°	854.9	851.9	842.8	847.3	846.6
15°	840.5	837.5	827.6	833.7	829.1
17.5°	824.6	820.8	810.9	815.5	813.9
20°	806.4	801.8	791.9	795.0	792.7
22.5°	785.9	781.3	771.5	773.7	770.7
25°	763.1	758.6	748.7	749.5	747.2
27.5°	739.6	735.0	724.4	725.2	722.9
30°	713.8	710.0	699.4	699.4	694.1
32.5°	688.0	682.7	675.1	669.8	667.5
35°	660.0	655.4	645.5	641.0	637.2
37.5°	631.9	625.8	616.0	610.6	608.4
40°	602.3	597.7	587.1	581.1	578.0
42.5°	572.7	567.4	556.8	550.7	547.7
45°	540.9	537.8	528.0	518.9	515.1
47.5°	509.8	505.2	496.1	487.0	484.0
50°	477.9	474.1	464.2	455.9	451.3
52.5°	444.5	442.2	431.6	424.8	420.2
55°	410.4	409.6	399.8	391.4	387.6
57.5°	378.5	375.5	367.9	360.3	355.8
60°	343.6	342.9	333.8	326.9	323.1
62.5°	312.5	310.3	301.1	294.3	292.0
65°	279.9	276.1	268.5	262.5	260.2
67.5°	245.0	242.0	235.9	230.6	227.6
70°	213.9	209.4	204.8	199.5	195.7
72.5°	181.3	178.3	173.0	168.4	166.9
75°	147.9	144.9	142.6	138.8	136.5
77.5°	118.3	116.8	113.8	110.8	110.8
80°	89.5	87.2	85.7	85.0	85.0
82.5°	61.4	61.4	61.4	59.9	59.2
85°	39.4	37.9	37.9	36.4	36.4
87.5°	19.7	17.4	16.7	15.9	15.9
90°	2.0	11.8	24.6	27.5	28.5
92.5°	14.7	59.0	182.8	62.4	52.1
95°	33.4	108.6	582.7	170.0	114.0
97.5°	53.1	124.3	896.1	427.4	233.9
100°	72.7	137.0	930.5	894.2	616.1
102.5°	93.3	151.8	866.7	1197.3	975.7
105°	114.0	168.5	790.0	1381.6	1249.9
107.5°	135.6	188.2	722.2	1462.6	1428.7
110°	159.2	208.4	666.2	1465.1	1530.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.8	229.4	628.9	1409.6	1551.5
115°	201.4	251.0	604.3	1325.0	1520.1
117.5°	222.1	271.7	587.6	1234.6	1451.3
120°	243.7	292.3	576.8	1149.2	1360.9
122.5°	262.4	312.0	569.9	1081.9	1276.4
125°	280.0	330.6	564.0	1021.9	1198.8
127.5°	293.8	348.4	561.1	972.8	1132.0
130°	306.6	364.0	558.1	927.6	1076.9
132.5°	316.4	378.3	557.1	885.4	1022.9
135°	328.2	391.6	556.2	841.6	971.8
137.5°	339.0	402.4	554.2	800.3	917.8
140°	349.8	412.2	553.2	760.0	860.8
142.5°	361.6	421.0	551.2	723.2	807.7
145°	374.4	428.9	549.3	690.2	759.6
147.5°	387.1	437.2	546.3	664.8	718.3
150°	399.9	444.2	542.4	642.2	682.9
152.5°	412.7	451.6	537.5	622.5	653.4
155°	425.5	458.9	531.6	604.3	629.9
157.5°	435.3	465.3	526.7	586.6	607.3
160°	447.1	470.7	520.8	570.4	585.6
162.5°	455.9	474.6	514.9	555.2	566.0
165°	464.8	478.0	509.0	540.0	549.3
167.5°	471.7	481.0	503.1	526.7	532.6
170°	477.6	482.4	497.2	514.9	517.8
172.5°	481.5	483.9	492.3	504.6	504.1
175°	484.4	484.9	488.4	495.2	494.3
177.5°	486.4	485.4	485.4	489.3	487.4
180°	485.4	485.4	485.4	485.4	485.4

(END OF REPORT)