

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: P1012574

Luminaire Tested: S123RDIP-B560D1025UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012574
REPORT IS A COMBINATION OF REPORTS P993351 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D1025UB40-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

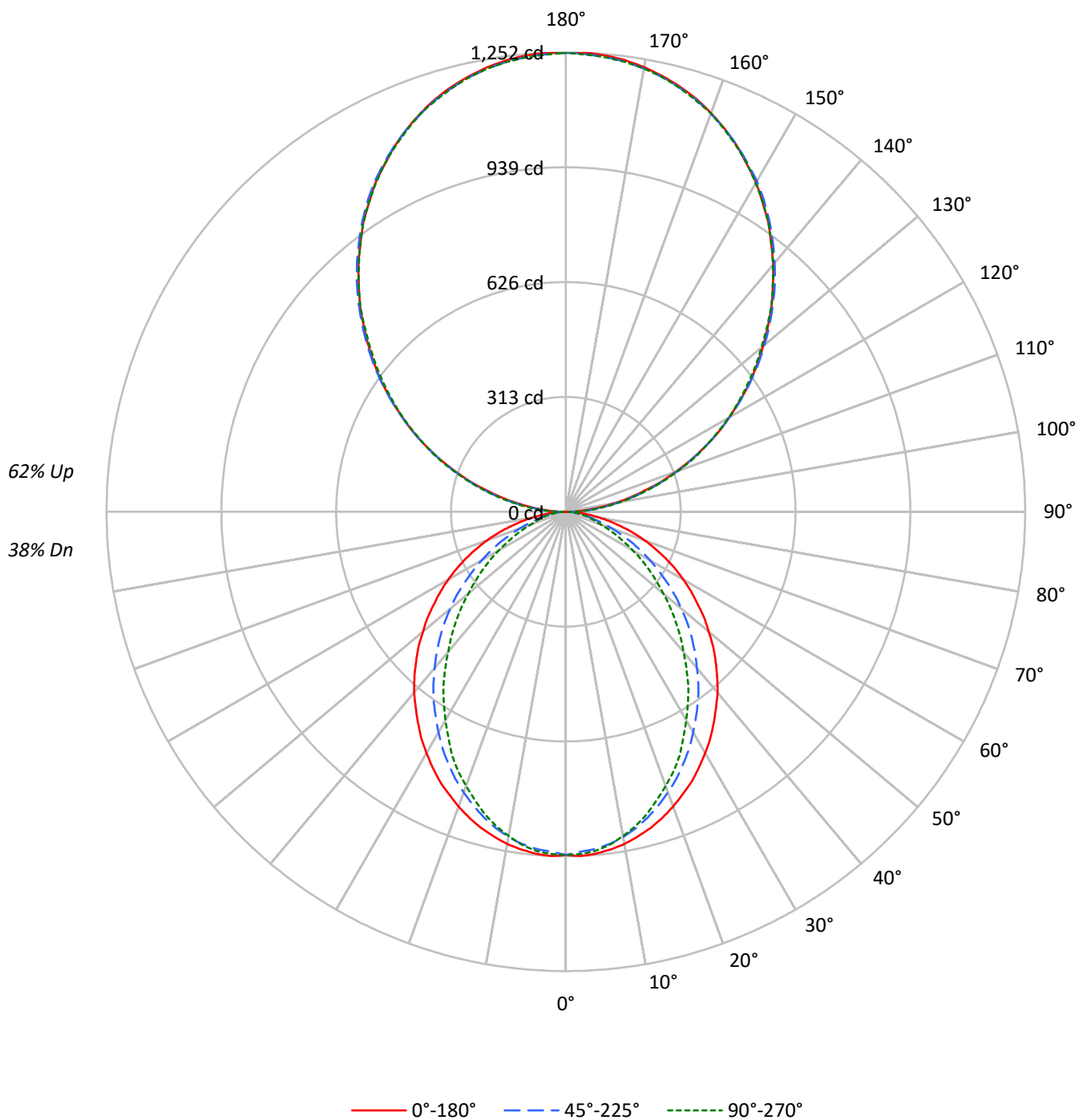
Lumens per Lamp: N/A
Luminaire Lumens: 5582.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	60	60	60	45	45	45
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33
3	79	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	29	26	24
5	67	56	48	42	60	51	44	39	42	37	33	34	30	27	26	23	21
6	62	50	42	36	56	46	39	34	38	33	29	30	27	24	23	21	19
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	21	19	17
8	53	41	33	28	48	38	31	26	31	26	23	25	22	19	20	17	15
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10067	10067	10067
5°	10084	9711	9685
10°	10005	9346	9162
15°	9875	8895	8589
20°	9704	8404	7949
25°	9529	7894	7342
30°	9303	7352	6625
35°	9071	6819	5972
40°	8853	6239	5251
45°	8574	5673	4603
50°	8264	5069	3932
55°	7944	4422	3316
60°	7639	3759	2691
65°	7242	3077	2100
70°	6747	2327	1501
75°	6029	1576	1190
80°	5147	1096	834
85°	3861	590	437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	1.6
10°-20°	244.6	4.4
20°-30°	352.2	6.3
30°-40°	396.6	7.1
40°-50°	379.4	6.8
50°-60°	310.5	5.6
60°-70°	209.4	3.8
70°-80°	105.0	1.9
80°-90°	30.1	0.5
90°-100°	80.5	1.4
100°-110°	243.7	4.4
110°-120°	415.0	7.4
120°-130°	545.9	9.8
130°-140°	613.6	11.0
140°-150°	603.2	10.8
150°-160°	507.9	9.1
160°-170°	338.1	6.1
170°-180°	118.4	2.1
0°-30°	684.7	12.3
0°-40°	1081.3	19.4
0°-60°	1771.2	31.7
0°-90°	2115.7	37.9
90°-120°	739.2	13.2
90°-150°	2502.0	44.8
90°-180°	3466.0	62.1
0°-180°	5582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	935	932	922	929	928	89
15°	892	884	862	859	853	251
25°	812	793	758	742	734	373
35°	702	675	628	596	582	440
45°	577	543	485	442	423	445
55°	438	401	337	293	278	393
65°	300	258	199	162	153	297
75°	158	122	80	73	71	169
85°	40	24	21	20	20	44
90°	1	11	24	28	30	7
95°	58	65	73	77	77	64
105°	221	223	232	232	234	237
115°	418	421	419	420	419	413
125°	611	614	612	608	604	545
135°	793	799	798	794	792	611
145°	962	964	967	966	962	601
155°	1102	1102	1103	1107	1100	507
165°	1200	1197	1197	1203	1196	338
175°	1248	1244	1244	1250	1243	119
180°	1251	1251	1251	1251	1251	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.3	935.3	935.3	935.3	935.3
2.5°	939.1	936.1	927.0	935.3	933.8
5°	935.3	931.5	922.4	929.2	927.7
7.5°	928.5	924.7	913.3	917.8	915.6
10°	919.4	914.1	900.4	901.2	897.4
12.5°	906.5	900.4	883.0	882.2	877.6
15°	892.1	883.7	862.5	858.7	853.4
17.5°	874.6	865.5	839.0	831.4	823.8
20°	854.9	842.8	813.9	804.1	795.0
22.5°	832.9	818.5	787.4	774.5	766.1
25°	811.7	792.7	757.8	741.9	733.5
27.5°	785.9	765.4	727.5	706.2	693.3
30°	759.3	736.6	694.1	668.3	656.1
32.5°	732.8	706.2	660.7	631.9	619.0
35°	702.4	675.1	628.1	595.5	581.8
37.5°	672.1	642.5	593.2	556.8	540.1
40°	643.3	609.9	556.0	516.6	499.1
42.5°	610.6	577.3	521.1	477.1	462.0
45°	577.3	543.1	484.7	441.5	423.3
47.5°	544.6	506.7	449.1	402.0	386.1
50°	508.2	472.6	411.1	364.1	346.7
52.5°	475.6	436.2	375.5	326.2	311.0
55°	438.4	401.3	336.8	292.8	277.6
57.5°	405.1	364.9	299.6	257.9	245.0
60°	370.2	328.5	265.5	224.5	211.6
62.5°	335.3	293.6	230.6	192.7	179.0
65°	299.6	257.9	198.7	161.6	153.2
67.5°	264.0	221.5	163.8	135.8	126.7
70°	229.1	188.1	135.0	108.5	100.1
72.5°	194.2	154.0	107.0	86.5	84.2
75°	158.5	122.1	80.4	72.8	71.3
77.5°	125.9	92.5	63.0	58.4	56.9
80°	94.8	63.7	47.8	45.5	44.0
82.5°	65.2	39.4	34.1	31.9	31.9
85°	40.2	23.5	21.2	19.7	19.7
87.5°	18.2	9.9	9.9	9.1	8.3
90°	1.0	10.8	23.6	27.5	29.5
92.5°	29.5	35.4	41.3	44.2	42.3
95°	58.0	64.9	72.7	76.7	76.7
97.5°	95.3	100.2	106.1	111.0	110.1
100°	133.7	139.5	144.5	147.4	149.4
102.5°	177.9	180.8	187.7	190.7	189.7
105°	221.1	223.1	231.9	231.9	233.9
107.5°	272.2	273.2	277.1	280.1	279.1
110°	319.4	321.4	323.3	327.3	325.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	368.5	369.5	369.5	374.4	374.4
115°	417.7	420.6	418.6	419.6	418.6
117.5°	467.8	468.8	466.8	466.8	463.9
120°	514.0	519.9	515.0	514.0	512.0
122.5°	562.1	566.1	564.1	561.1	558.2
125°	611.3	614.2	612.2	608.3	604.4
127.5°	656.5	662.4	660.4	654.5	650.6
130°	701.7	709.5	706.6	702.7	695.8
132.5°	746.9	754.7	752.8	747.9	742.9
135°	793.1	799.0	798.0	794.1	792.1
137.5°	835.3	840.2	843.2	838.3	835.3
140°	879.5	884.5	885.4	884.5	877.6
142.5°	919.8	924.8	926.7	925.7	920.8
145°	962.1	964.1	967.0	966.0	962.1
147.5°	998.5	1002.4	1005.3	1005.3	999.4
150°	1036.8	1038.8	1040.7	1040.7	1034.8
152.5°	1068.2	1071.2	1072.2	1074.1	1069.2
155°	1101.6	1101.6	1102.6	1106.6	1099.7
157.5°	1130.1	1129.2	1130.1	1134.1	1128.2
160°	1156.7	1154.7	1154.7	1159.6	1155.7
162.5°	1180.3	1177.3	1178.3	1183.2	1176.3
165°	1199.9	1197.0	1197.0	1202.9	1196.0
167.5°	1216.6	1212.7	1213.7	1219.6	1213.7
170°	1230.4	1226.5	1226.5	1233.3	1226.5
172.5°	1241.2	1237.3	1237.3	1243.2	1236.3
175°	1248.1	1244.1	1244.1	1250.0	1243.2
177.5°	1252.0	1248.1	1248.1	1254.0	1247.1
180°	1251.0	1251.0	1251.0	1251.0	1251.0

(END OF REPORT)